

Fig. 1

From
Jim Elder
829 Loop Street, Apt 300
Allentown, New York 14707

Nov 10, 1999

To
Dr. Bob Grant
602 Queensberry Parkway
Omar, West Virginia 25638

We were referred to you by Xena Cohen at the University Medical Center. This is regarding my friend, Kate Zack.

It all started around six months ago while attending the "Rubey" Jazz Concert. Organizing such an event is no picnic, and as President of the Alumni Association, a co-sponsor of the event, Kate was overworked. But she enjoyed her job, and did what was required of her with great zeal and enthusiasm.

However, the extra hours affected her health; halfway through the show she passed out. We rushed her to the hospital, and several questions, x-rays and blood tests later, were told it was just exhaustion.

Kate's been in very bad health since. Could you kindly take a look at the results and give us your opinion?

Thank you!
Jim

Fig. 2A

From
Jim Elder
829 Loop Street, Apt 300
Allentown, New York 14707

Nov 10, 1999

To
Dr. Bob Grant
602 Queensberry Parkway
Omar, West Virginia 25638

We were referred to you by Xena Cohen at the University Medical Center. This is regarding my friend, Kate Zack.

It all started around six months ago while attending the "Rubey" Jazz Concert. Organizing such an event is no picnic, and as President of the Alumni Association, a co-sponsor of the event, Kate was overworked. But she enjoyed her job, and did what was required of her with great zeal and enthusiasm.

However, the extra hours affected her health; halfway through the show she passed out. We rushed her to the hospital, and several questions, x-rays and blood tests later, were told it was just exhaustion.

Kate's been in very bad health since. Could you kindly take a look at the results and give us your opinion?

Thank you!
Jim

Fig. 2B

Dr. Bob Grant
602 Queensberry Parkway
Omara, West Virginia 25638

Fig. 3A

Dr. Bob Grant
602 Queensberry Parkway
Omara, West Virginia 25638

Fig. 3B

602 Queensberry Parkway

Fig. 3C

Queensberry

Fig. 3D

From
 The Elder
 299 Long Street, Apt 300
 Flushing, New York 11355
 Nov 12, 1999
 To
 Dr. Kit Chen
 602 Greenberg Building
 Room, West 41st Street
 We are referred in you by Xian Chen of the University Medical
 Center. Now it regarding my friend, Yola Zerk.
 It's all started around six months ago while attending the
 "Early" Tumor Center. Engaging with our friend it no longer.
 and as President of the Alumni Association, a co-sponsor of the
 event. We was contacted. And she engaged me job, and did
 what was required of her with great zeal and enthusiasm.
 However, the whole time affected her health, nothing through
 the show she passed out. We rushed her to the hospital, and
 several questions, X-ray and blood test later, we told it was
 just exhaustion.
 Xian knew a very bad health issue. Could you kindly take a
 look at the results and give us your opinion?
 Thank you!
 Tim

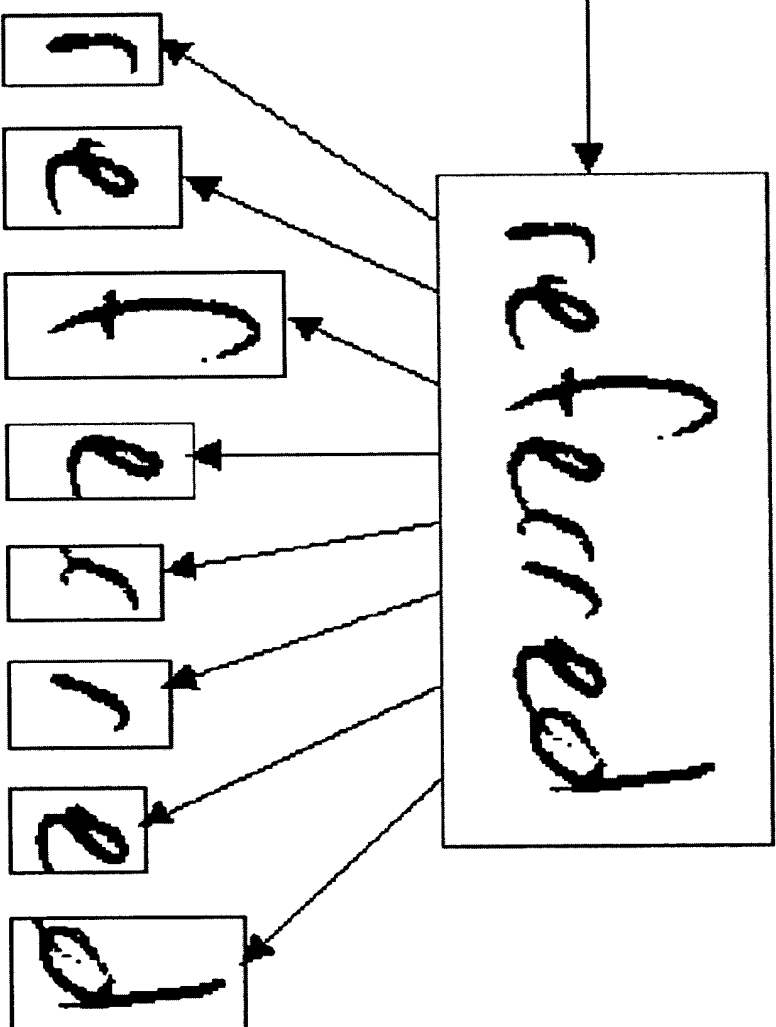


Fig. 4

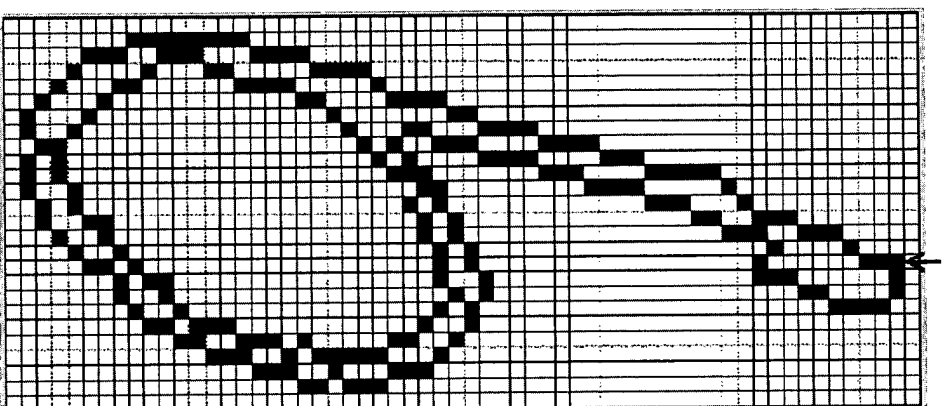
Measures of Pen Pressure	<ol style="list-style-type: none"> 1. Entropy of grey values 2. Grey-level threshold 3. Number of black pixels
Measures of Writing Movement	<ol style="list-style-type: none"> 4. Number of interior contours 5. Number of exterior curves
Measures of Stroke Formation	<ol style="list-style-type: none"> 6. Number of vertical slope components 7. Number of horizontal slope components 8. Number of negative slope components 9. Number of positive slope components
Slant	10. Slant
Word Proportion	11. Height

Fig. 5

602 Queensberry Parkway

602 Queensberry Parkway

Fig. 6



Exterior contour of 6:

```

066776676677766667667666766677
66676667666666656655543544343332343
3232322322321322122111010707077712
322322232223222322354223222210

```

Interior contour of 6:

```

555656666757667667706777067070011112
11223223222323333323534344

```

Fig. 7

all started around 2000-2001

Fig. 8A

all started around 2000-2001

Fig. 8B

To
Dr. Bob Grant
602 Quakersberry Parkway
Over, West Virginia 25638

Fig. 9A

At
Dr. Bob Grant
602 Quakersberry Parkway
Over, West Virginia 25638

Fig. 9B

Fig. 10B

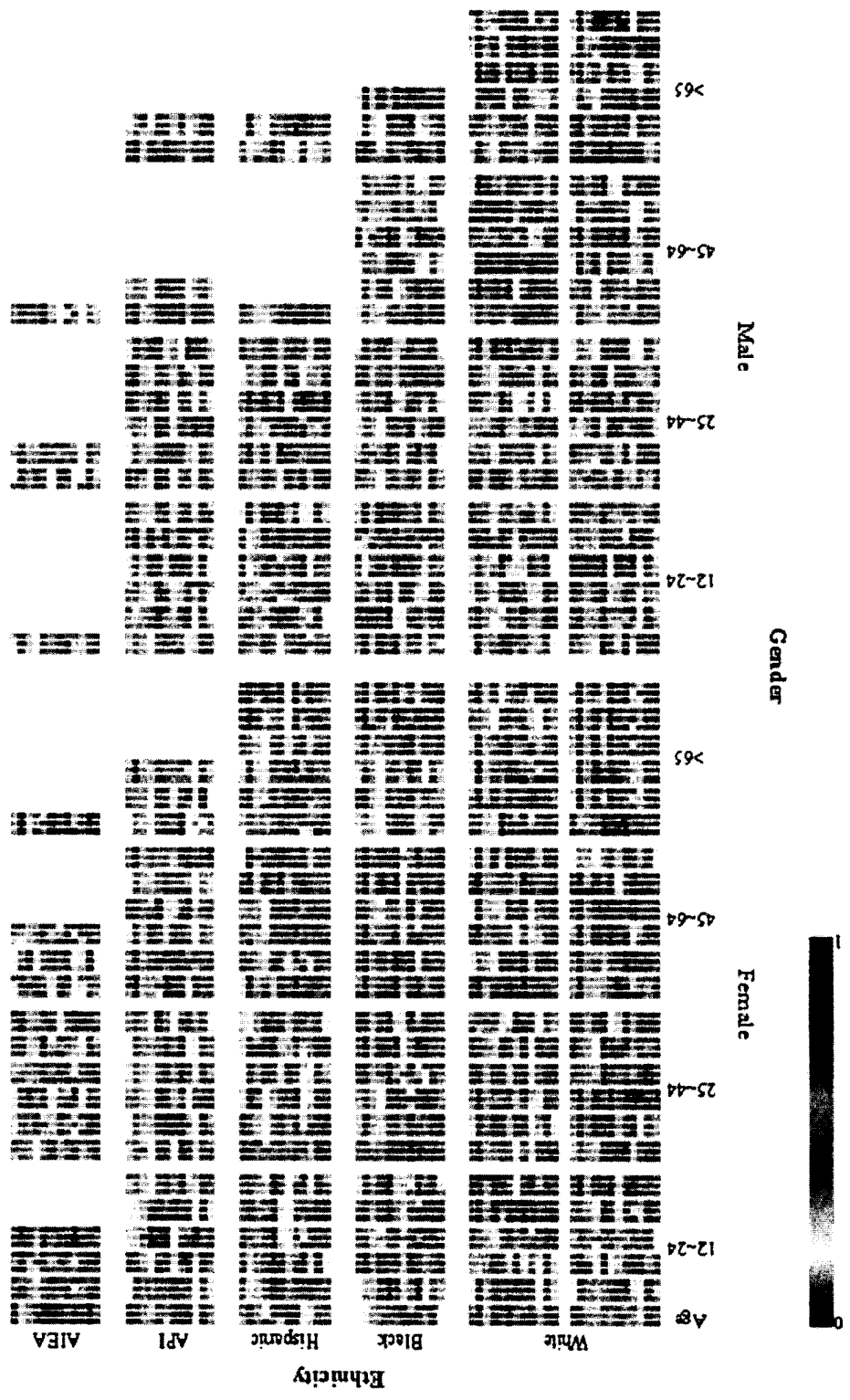


Fig. 10A

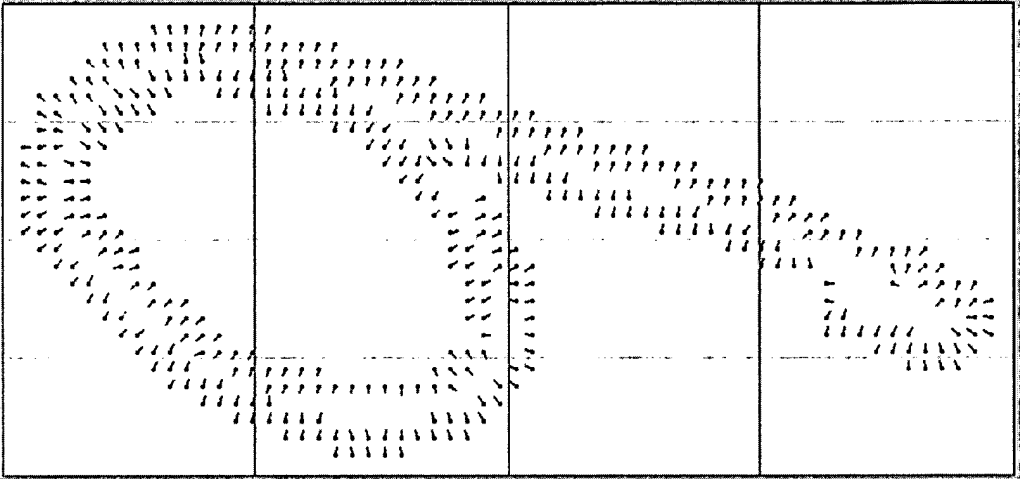


Fig. 11A

Gradient (192bits)	: 00000000000011000000000011000011000000000010000011000000000110
Structural (192bits)	: 00000000000000000010000000000011000000010001010000000000000000
Concavity (128bits)	: 0011100000010010100000010000000000001110000000001000000000100
	: 00000000010110011001101111000001100000000000110000000000110000
	: 011001001111111100000001111110011001001001001000000000111100
	: 0011011100

Fig. 11B

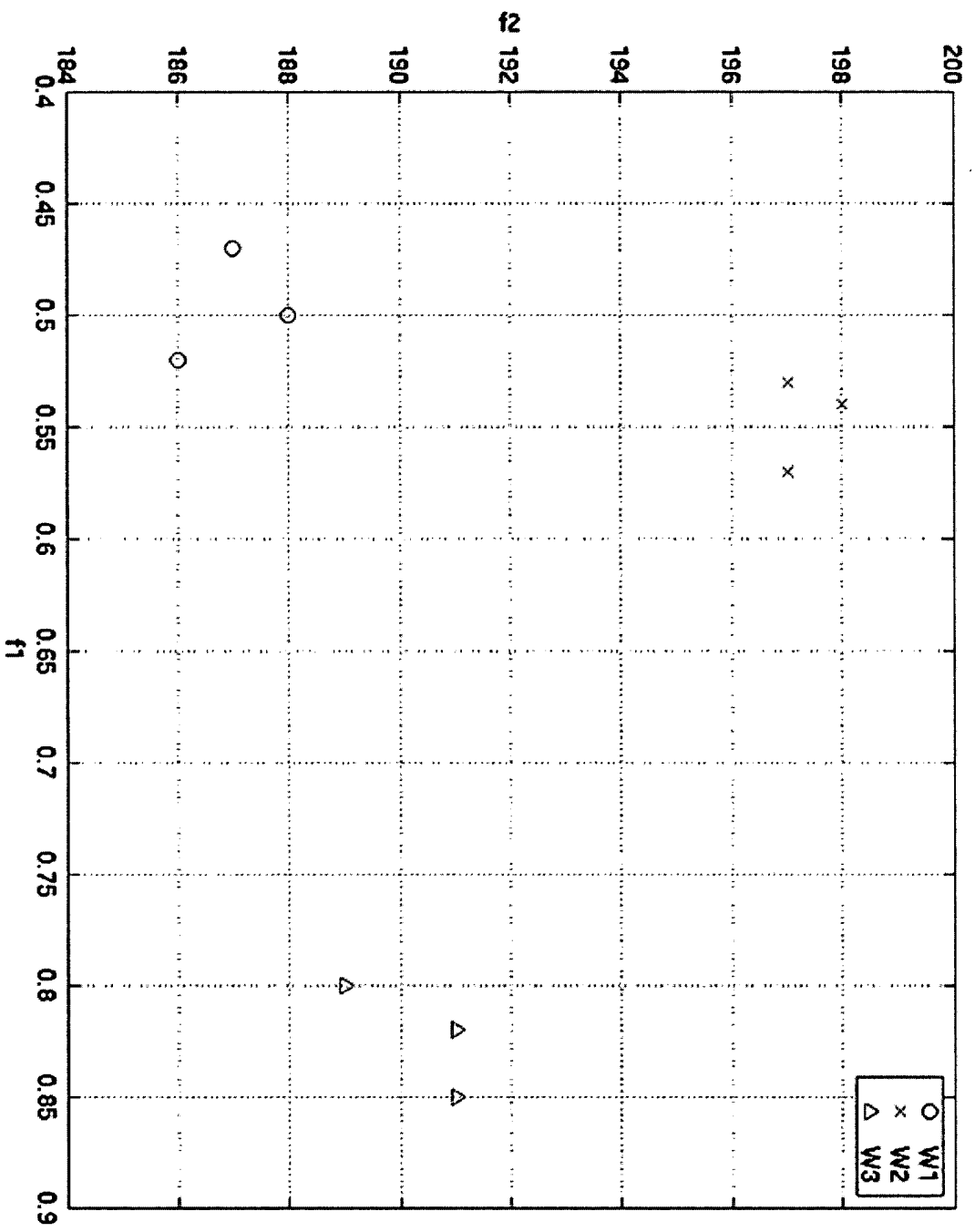


Fig. 12

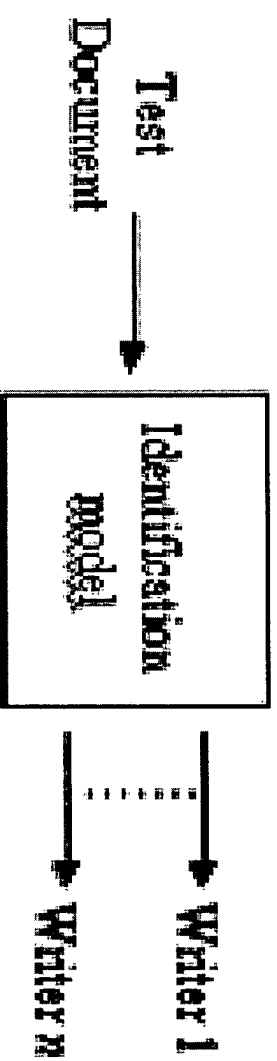


Fig. 13A

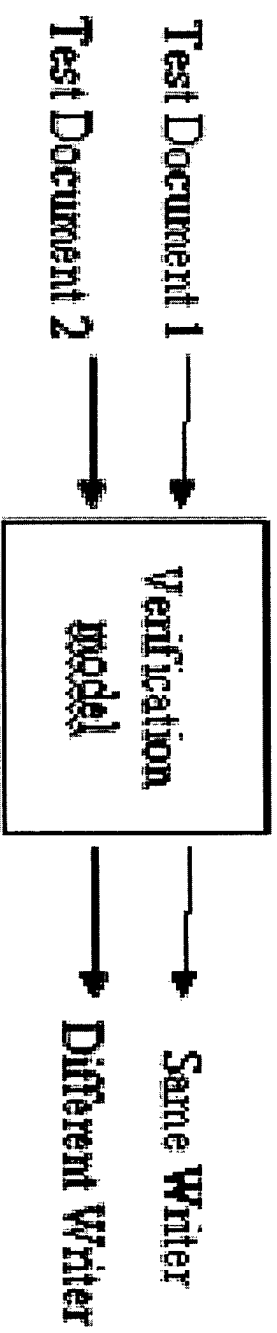


Fig. 13B

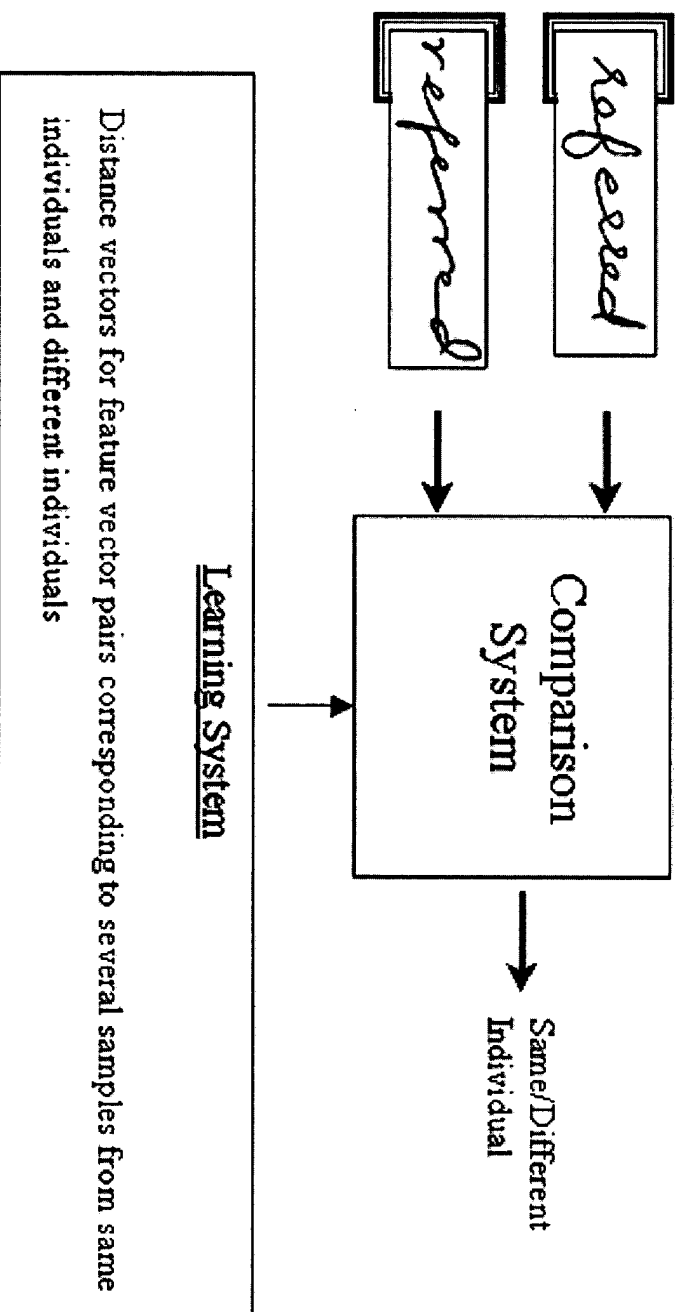


Fig. 14

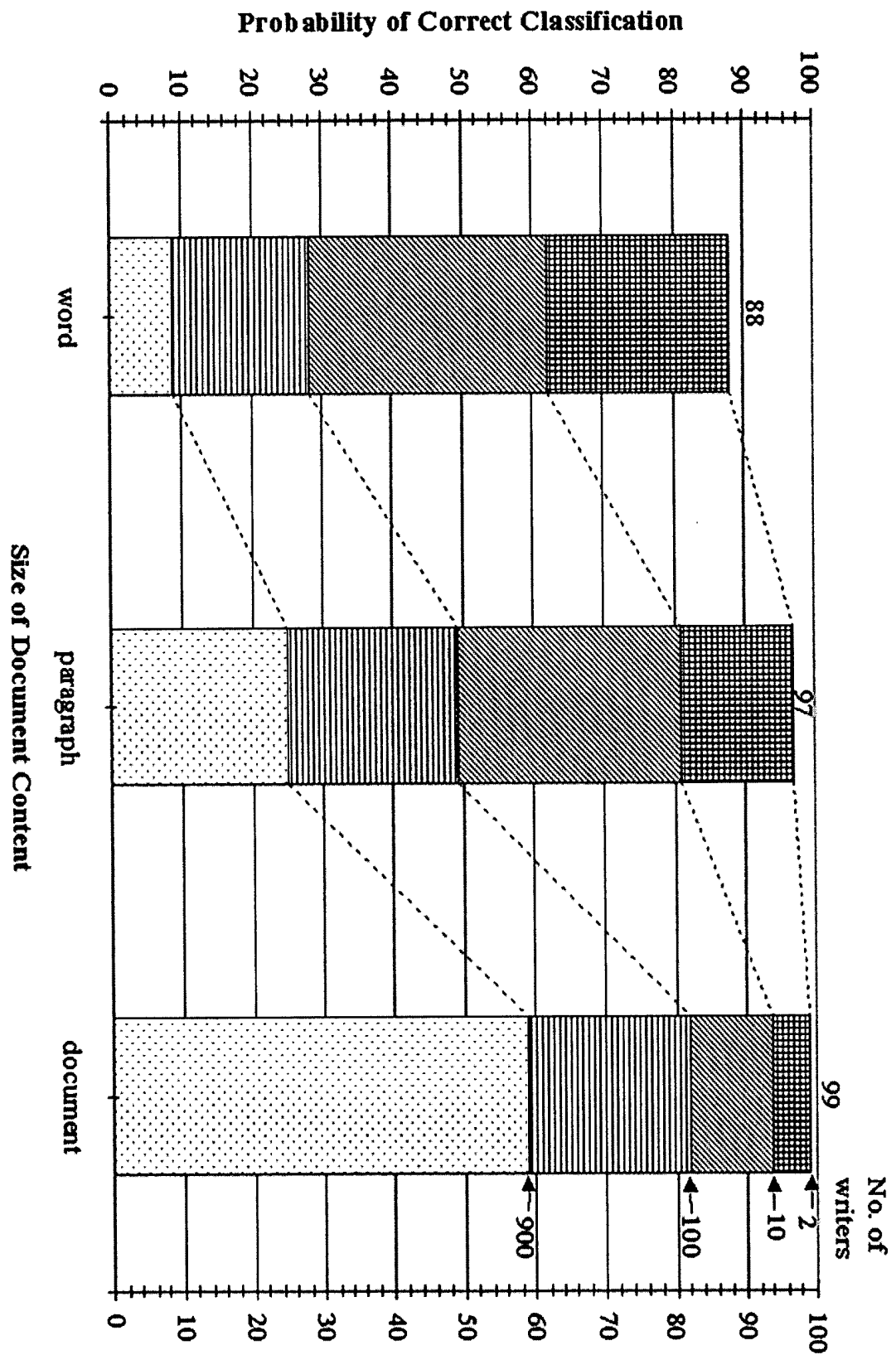


Fig. 15

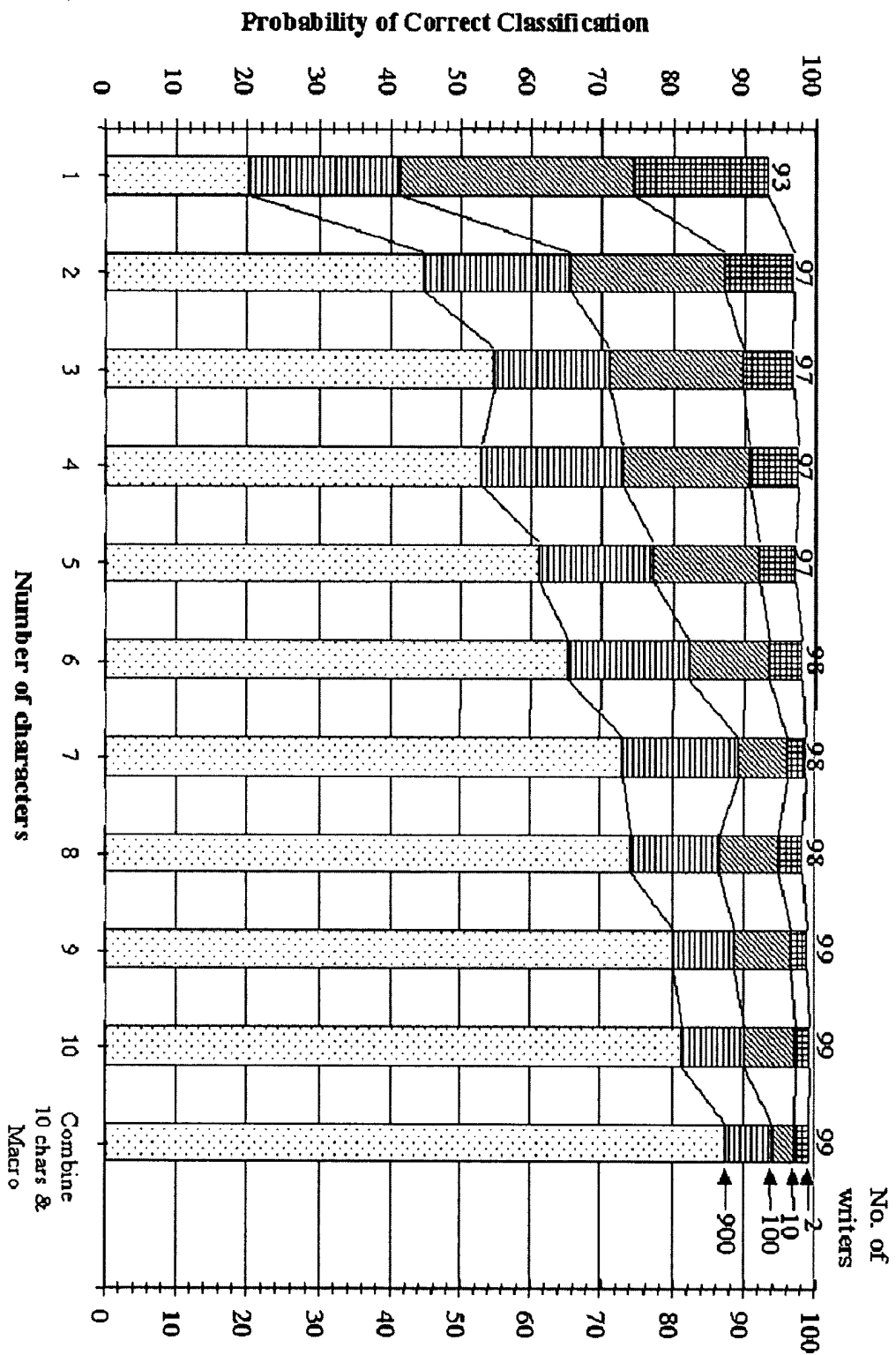


Fig. 16

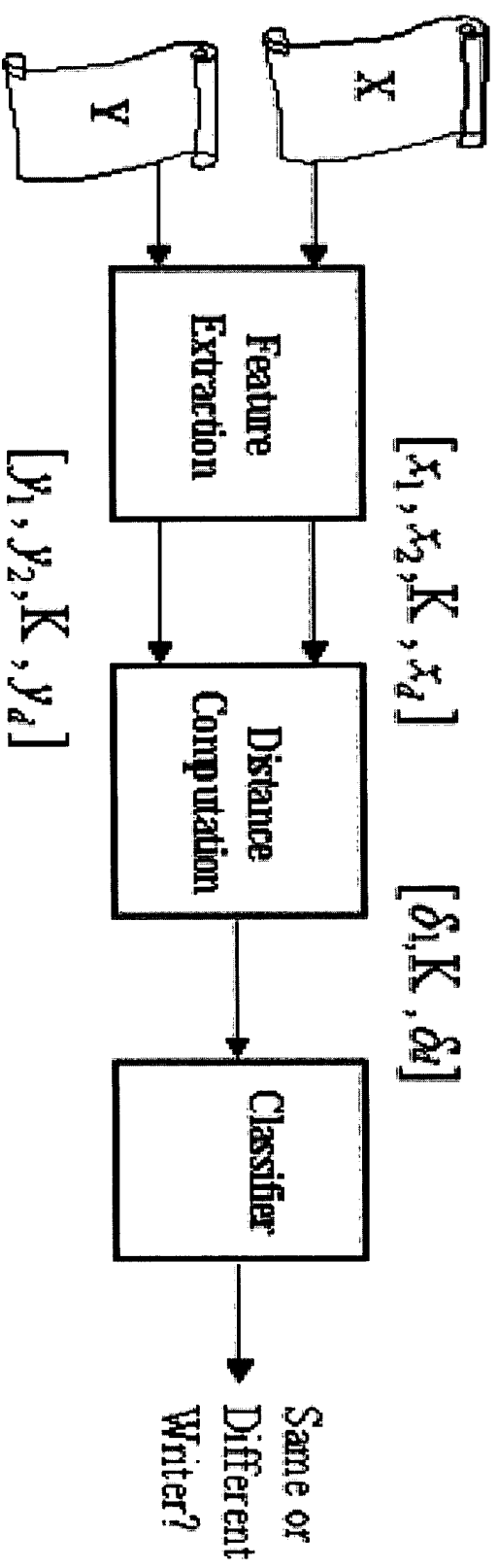


Fig. 17

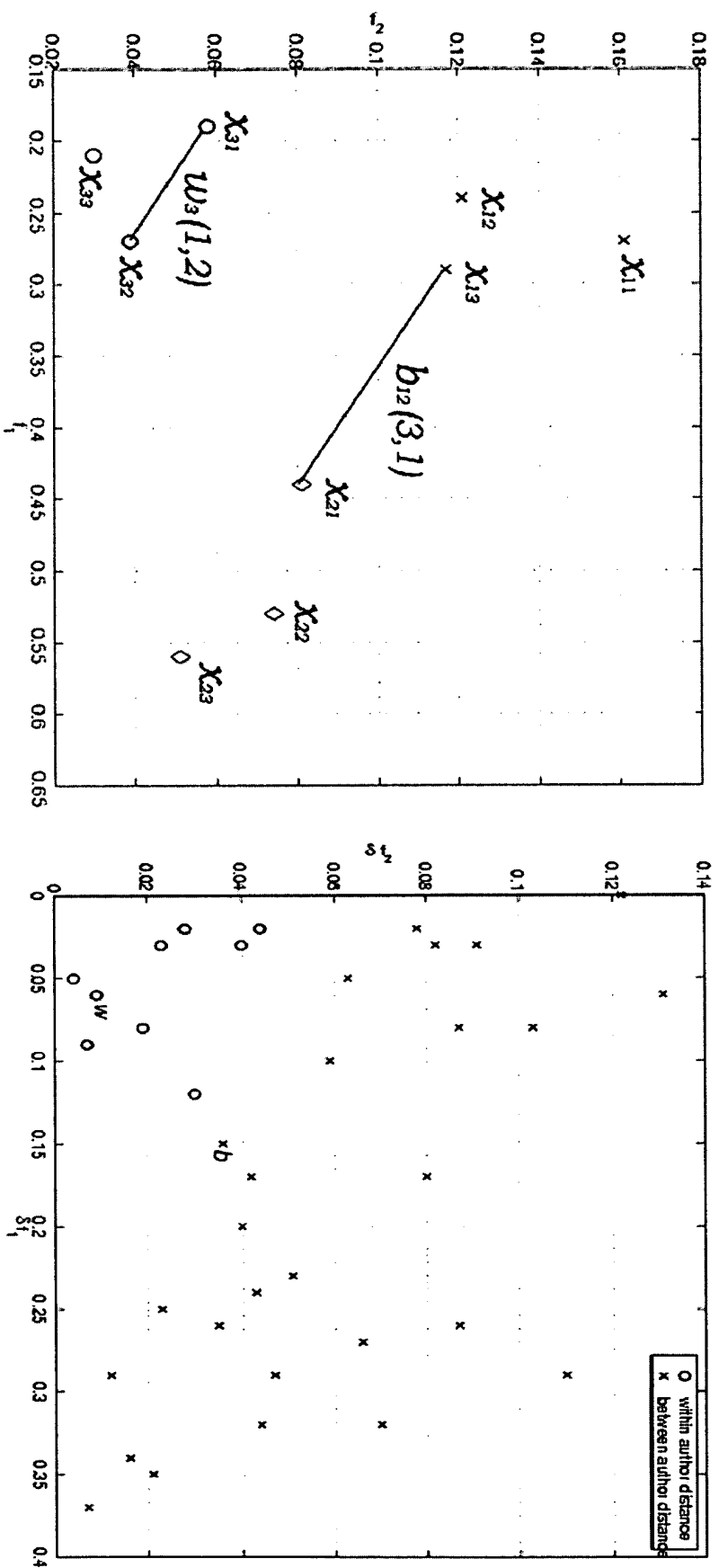


Fig. 18

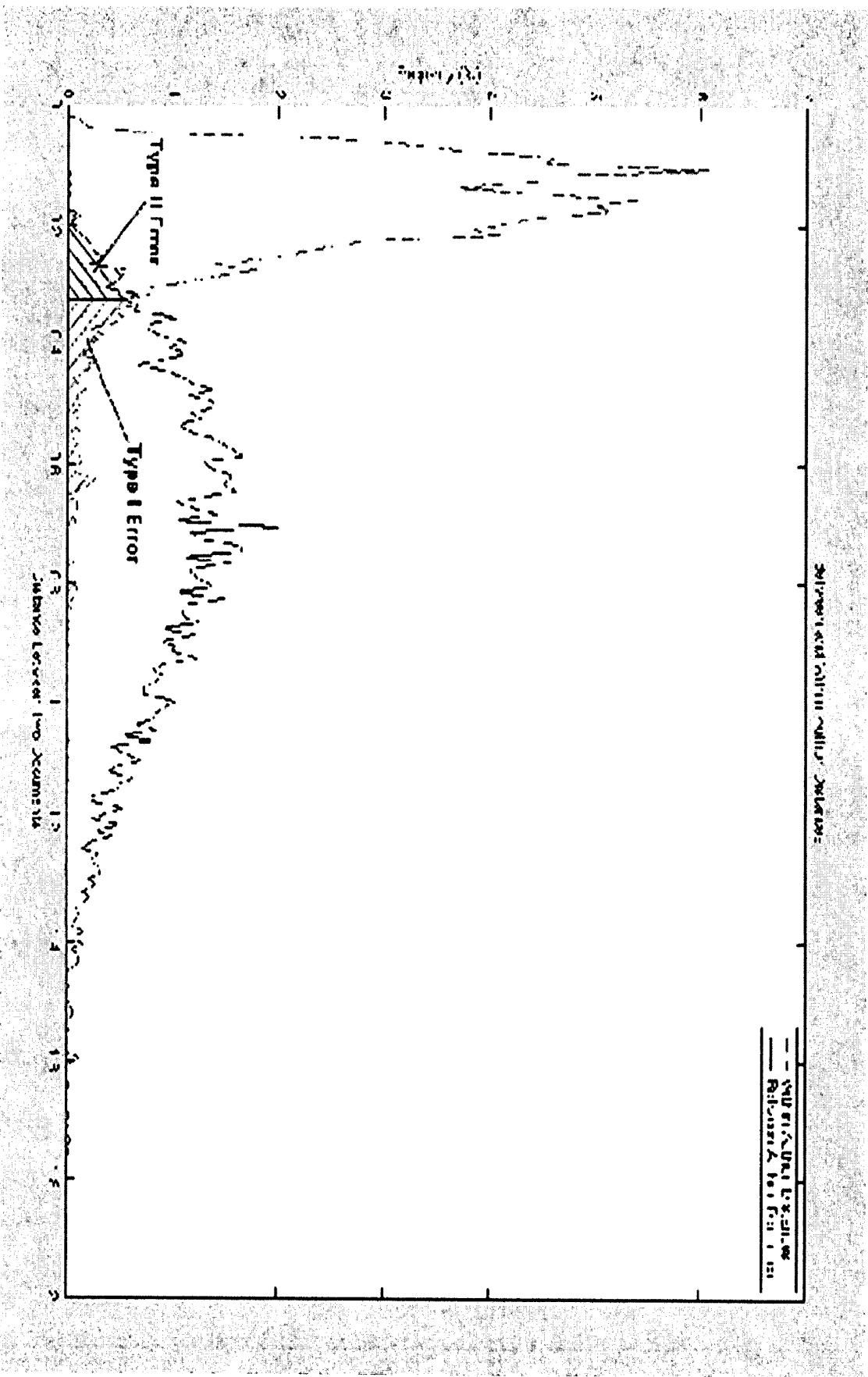


Fig. 19

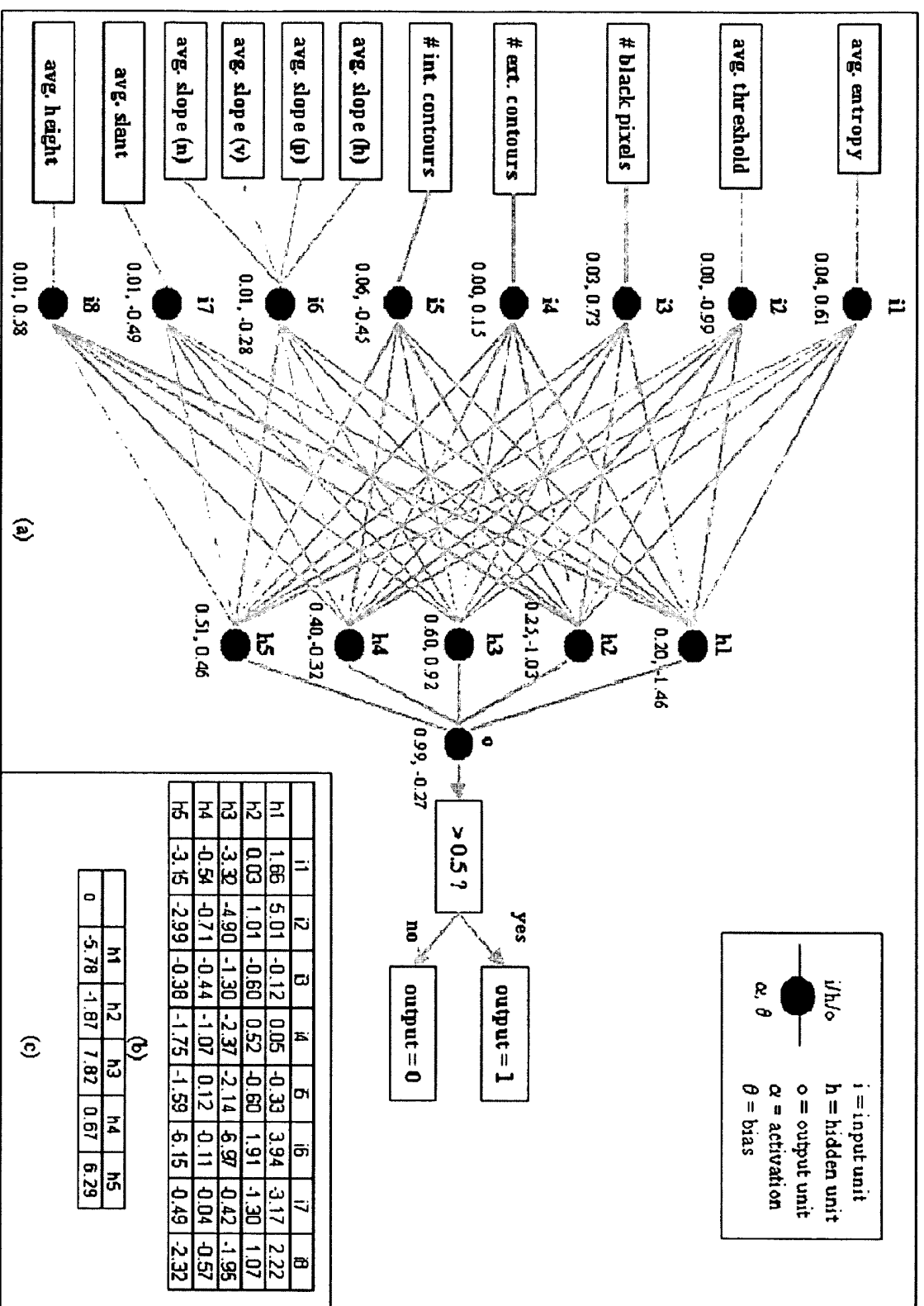


Fig. 20

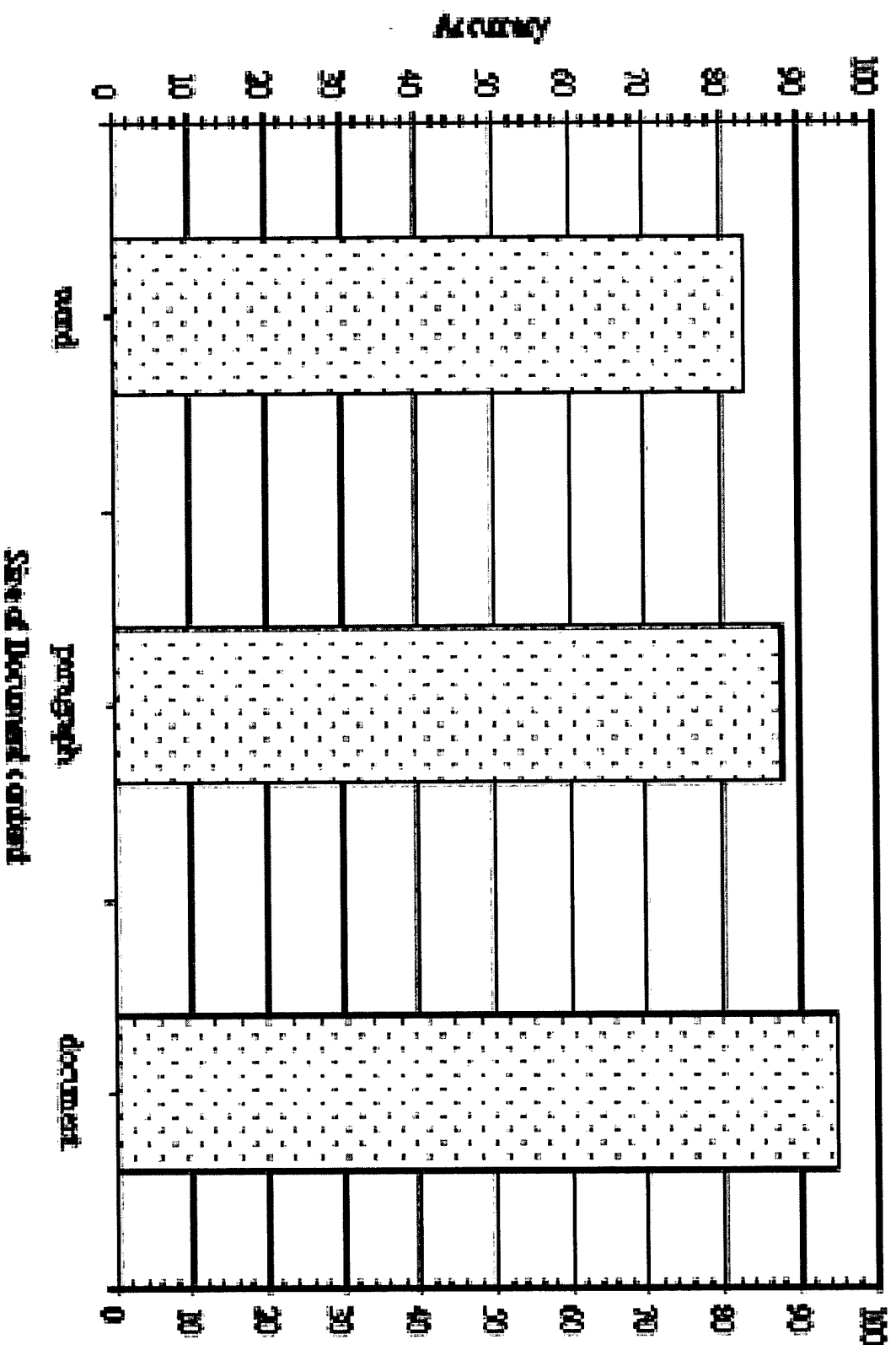


Fig. 21

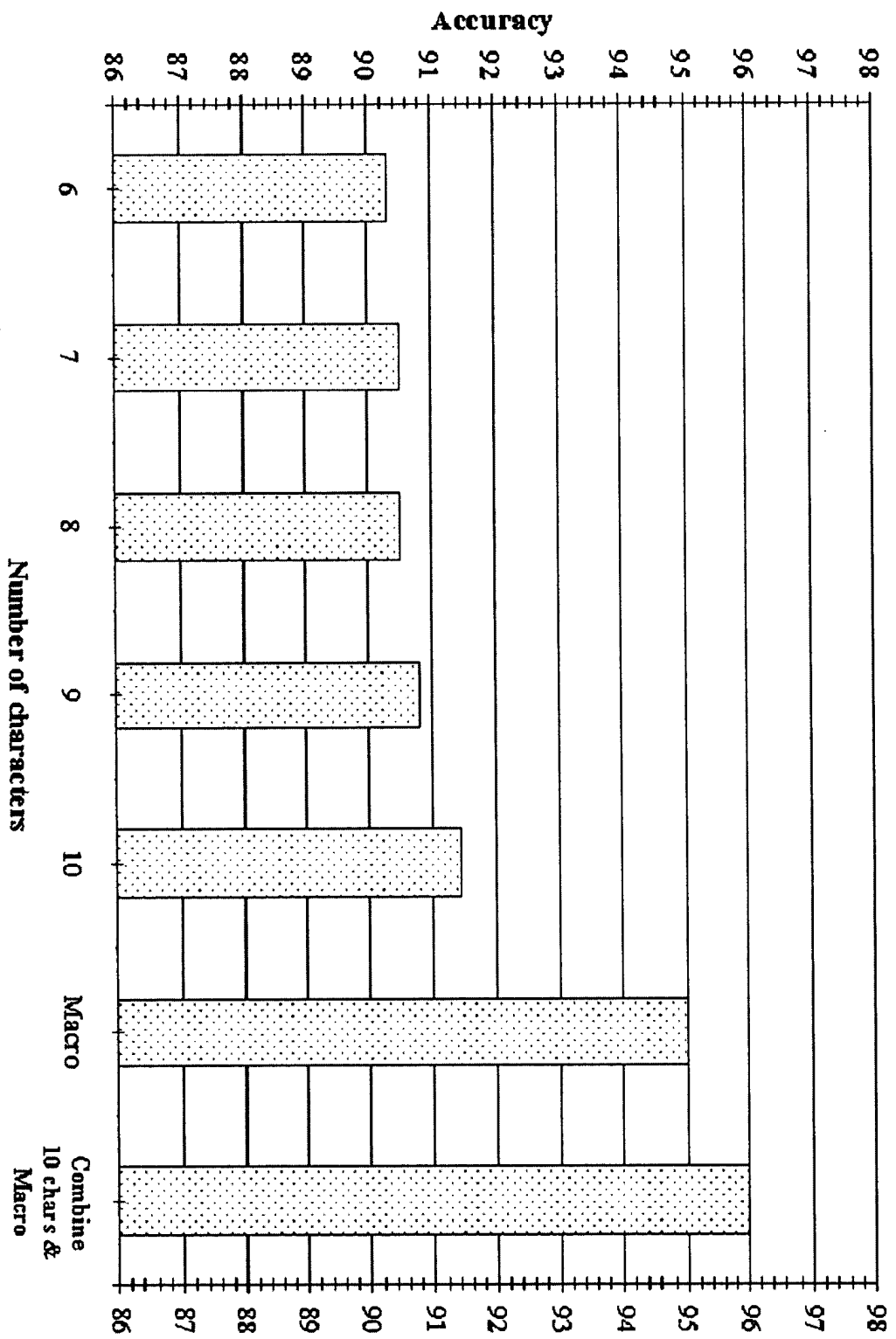


Fig. 22

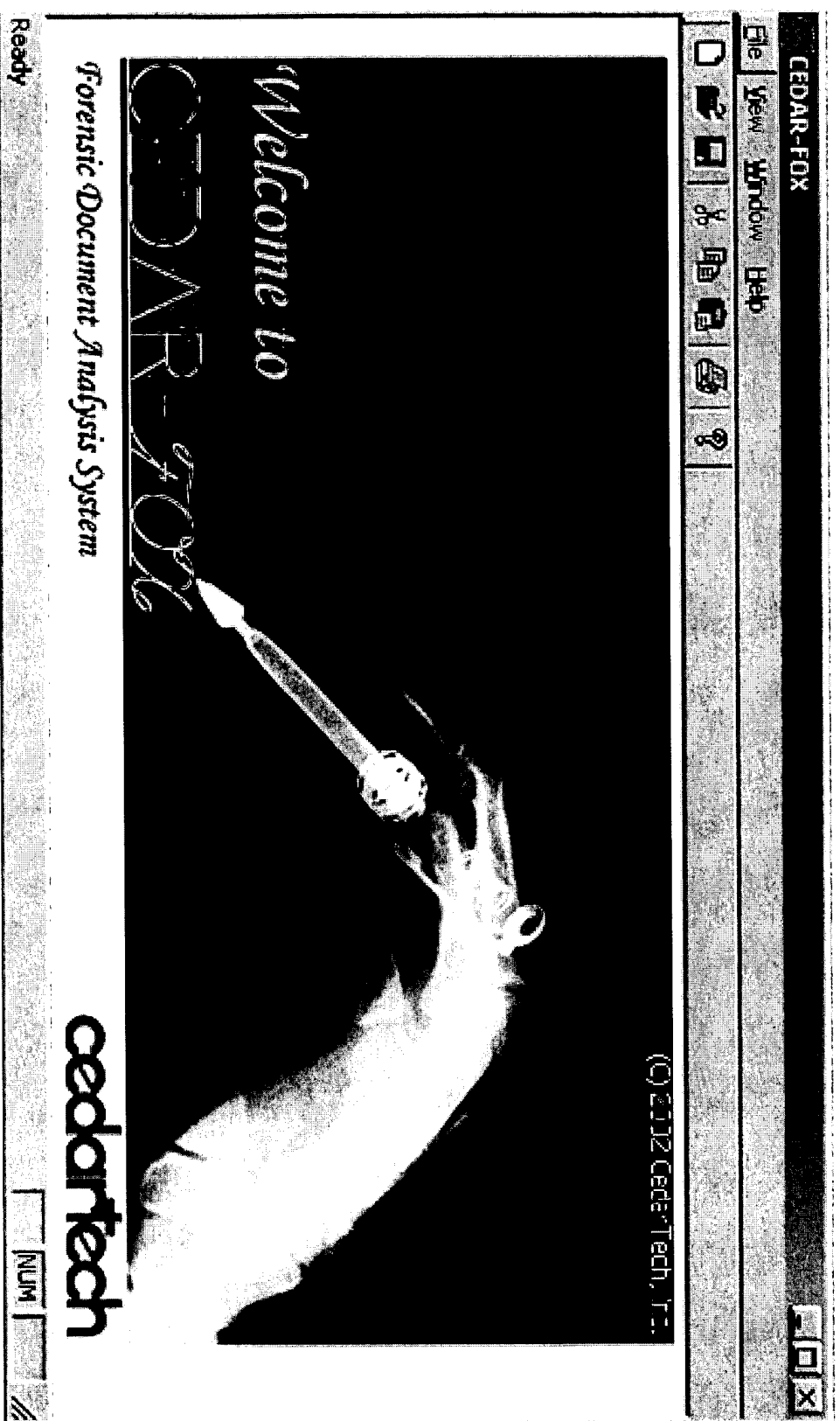


Fig. 23

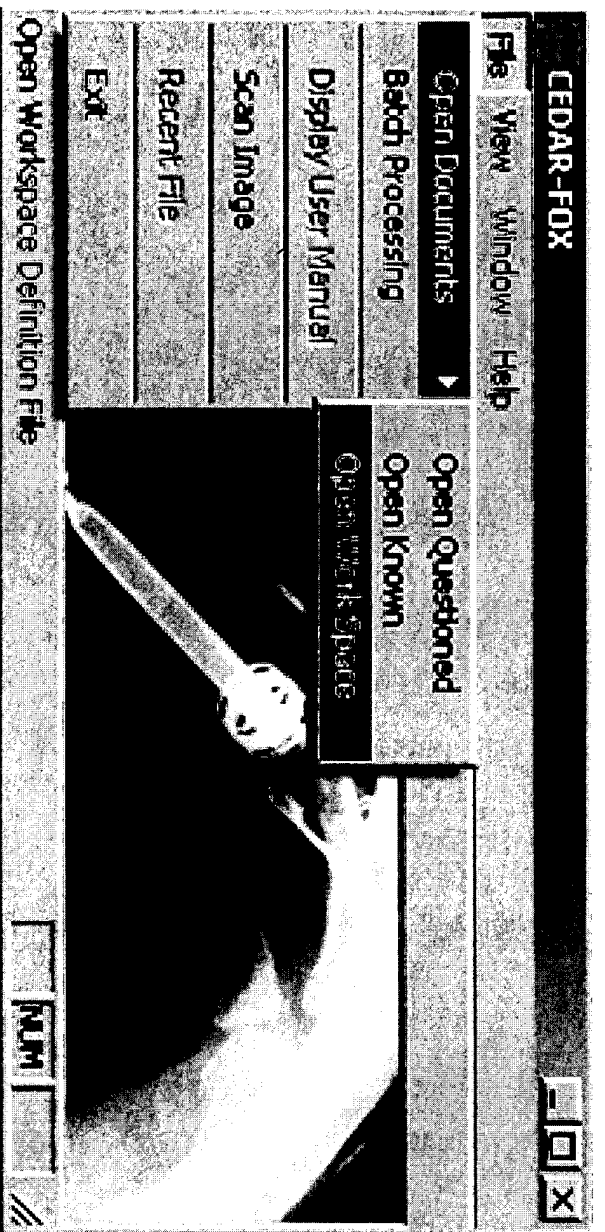
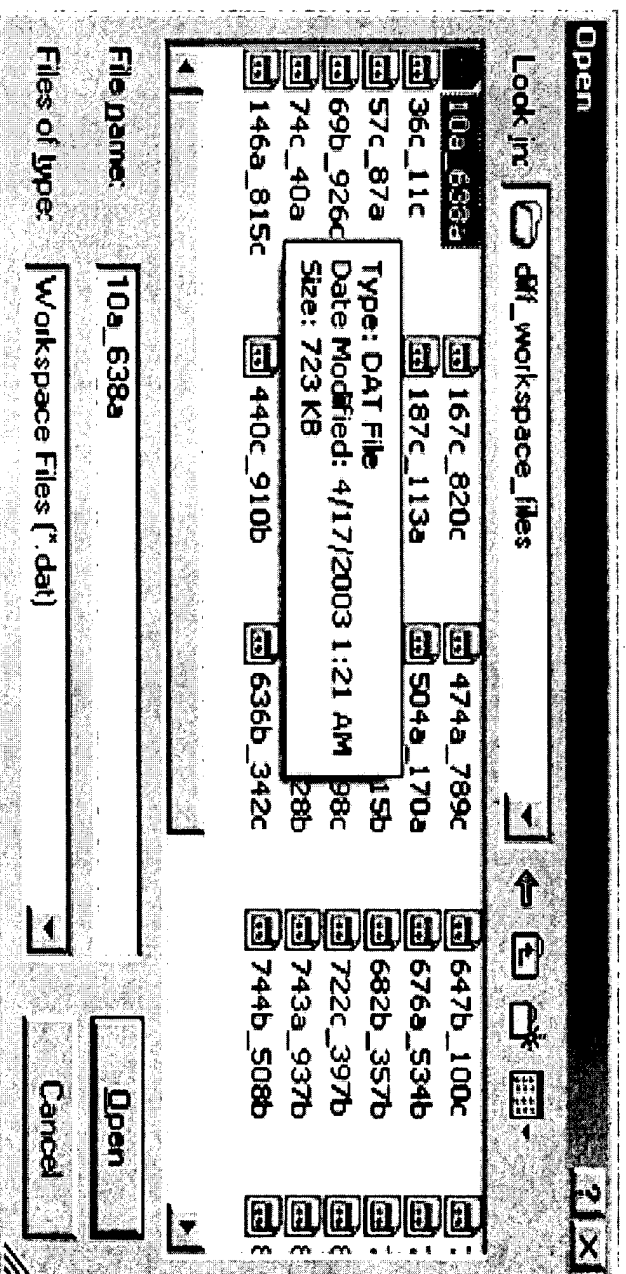


Fig. 24A

Fig. 24B



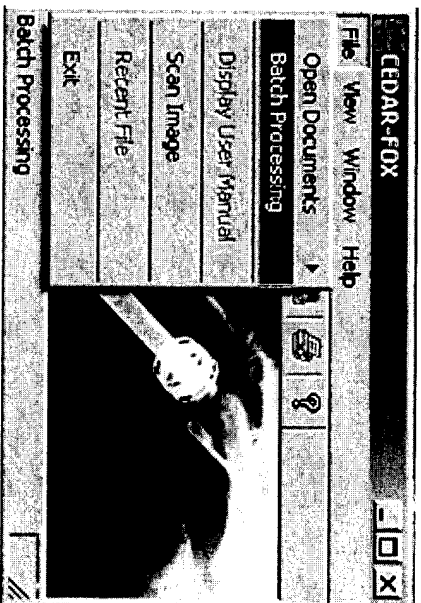


Fig. 25A

Fig. 25B

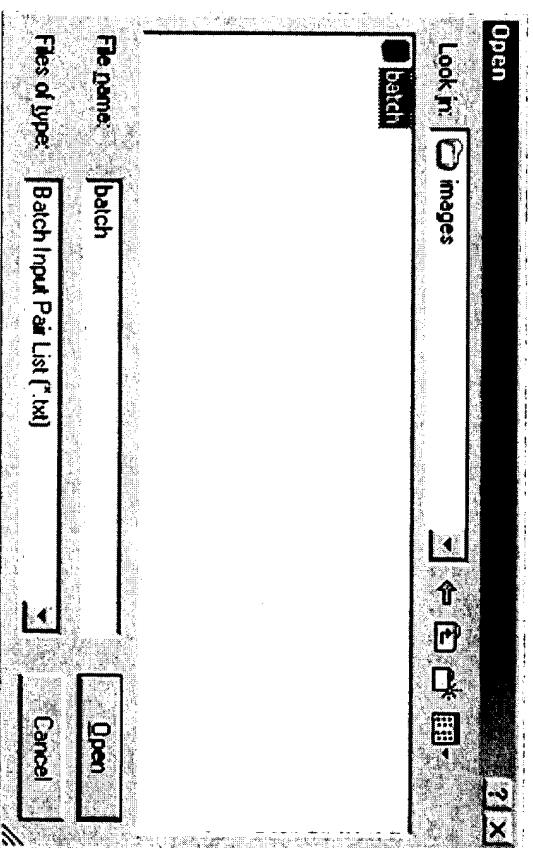
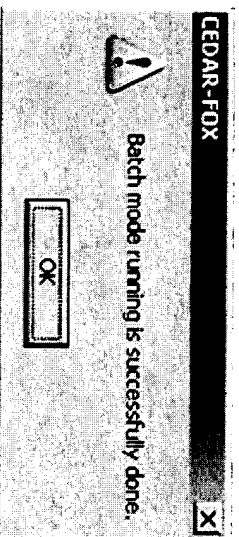


Fig. 25C

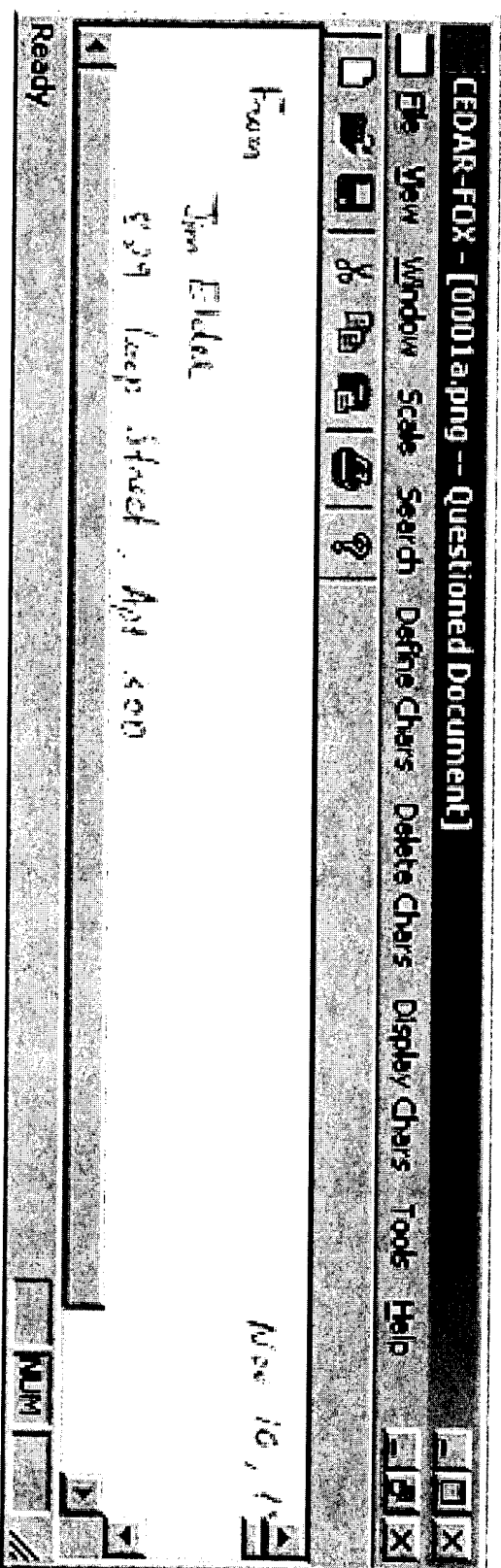


Fig. 26

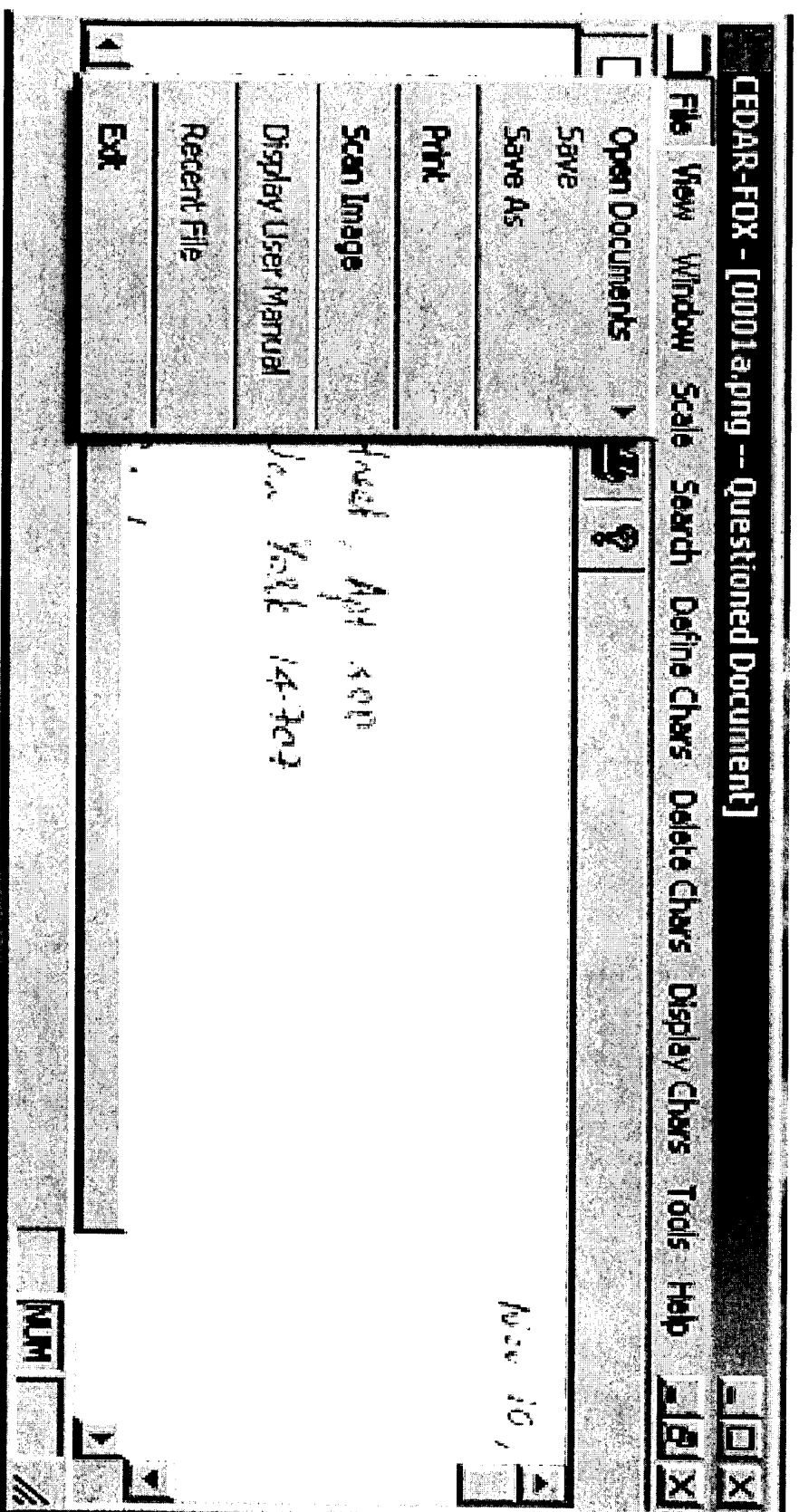


Fig. 27

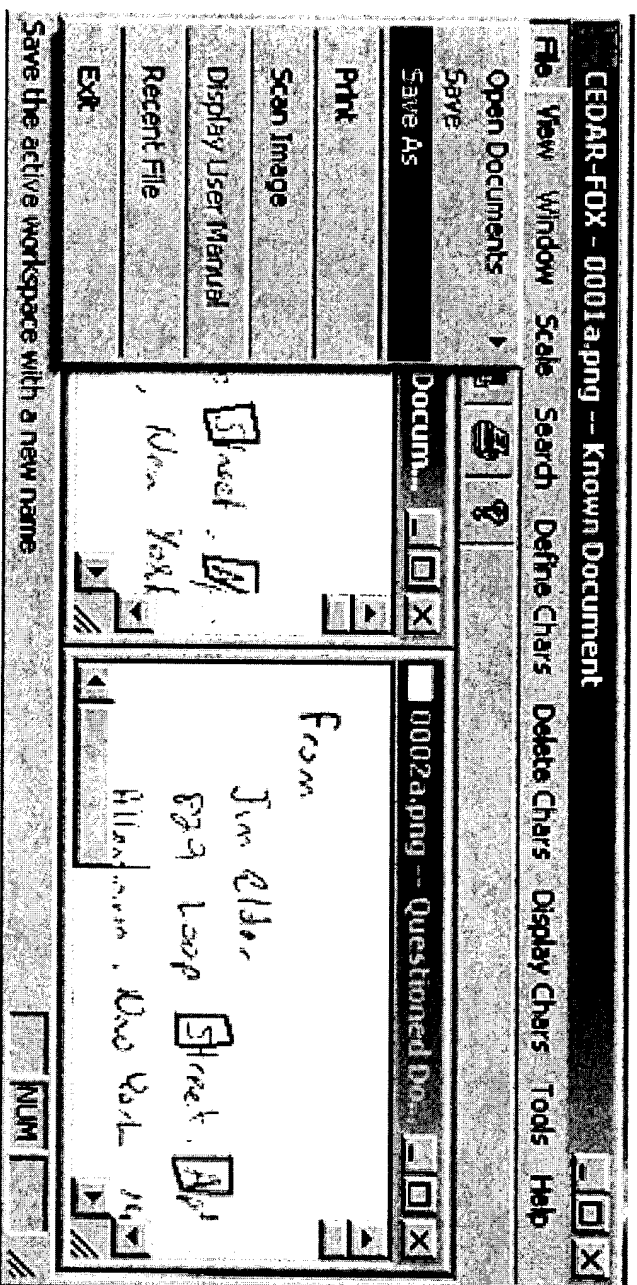


Fig. 28A

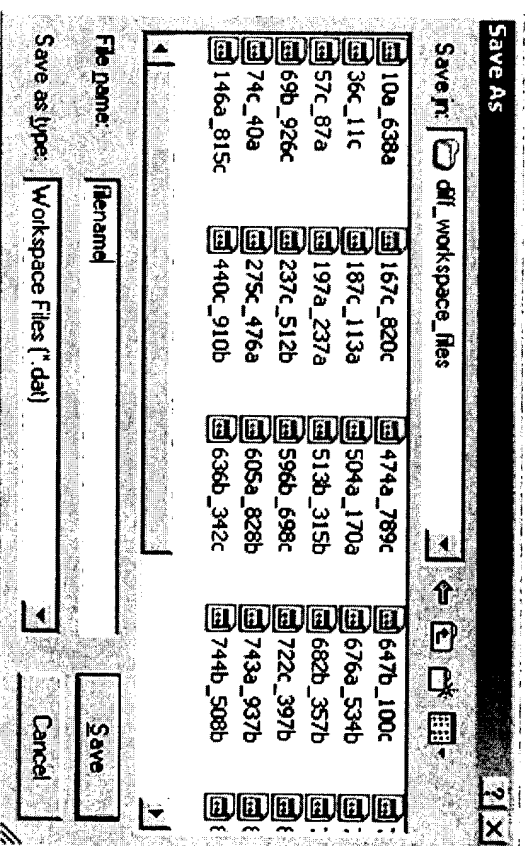


Fig. 28B

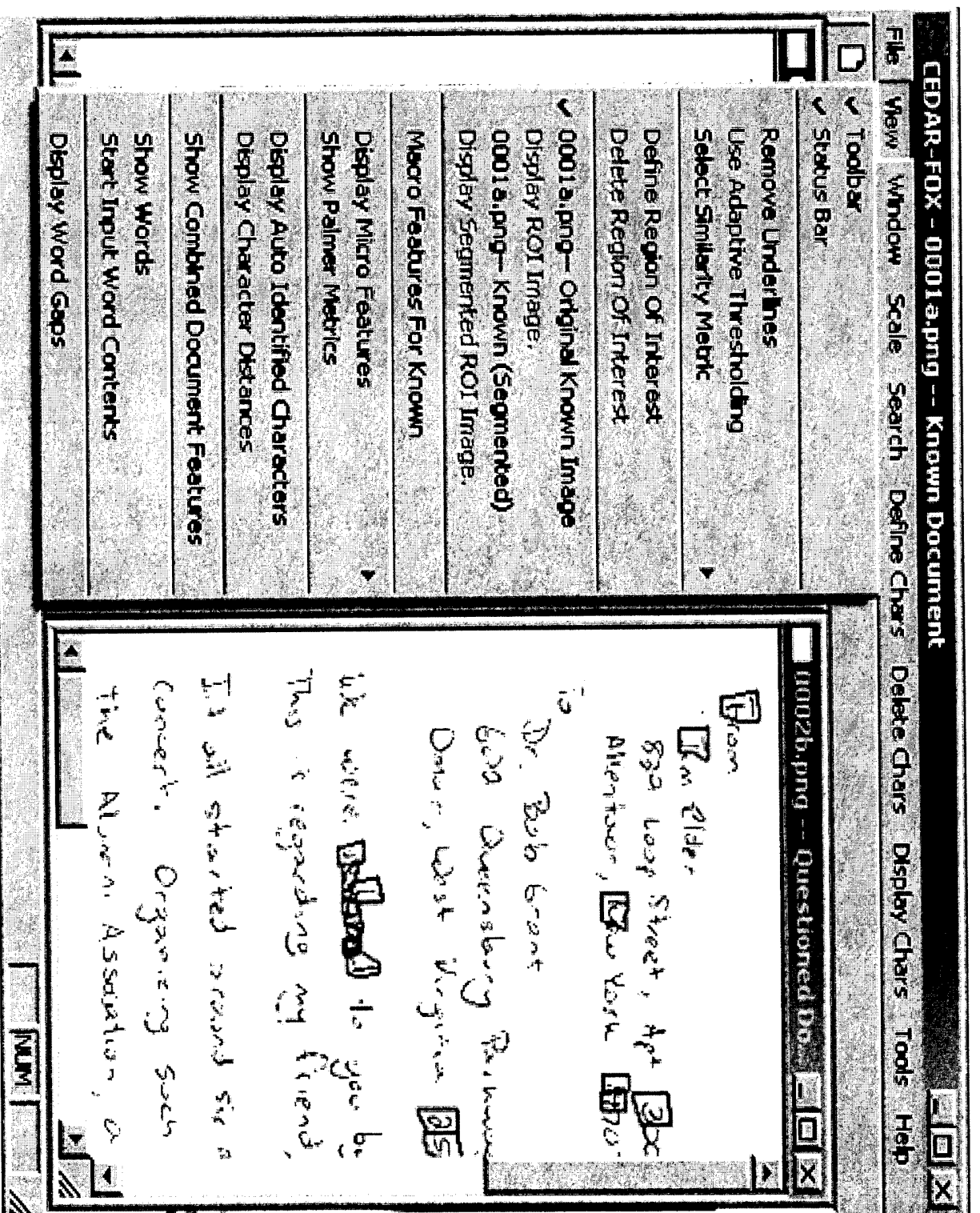


Fig. 29

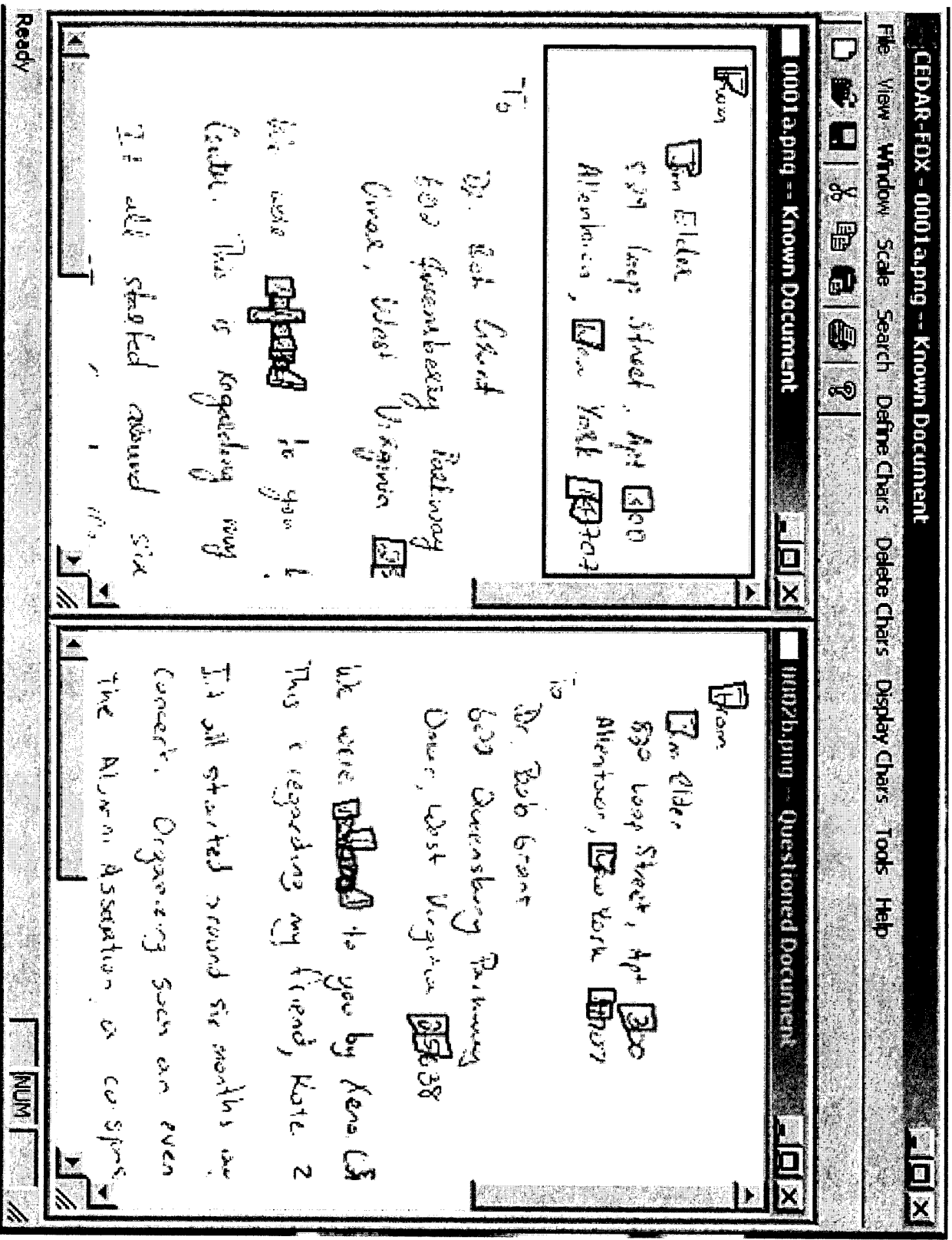


Fig. 30A

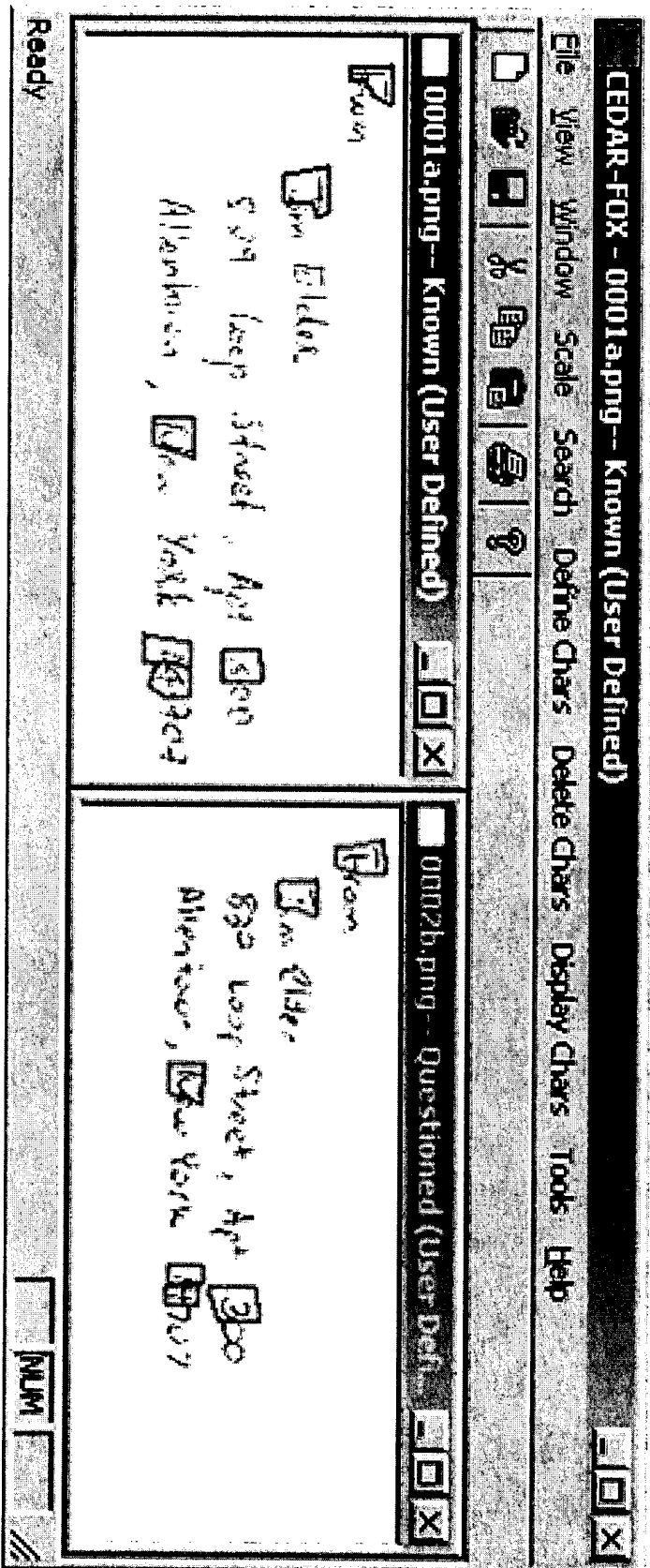


Fig. 30B

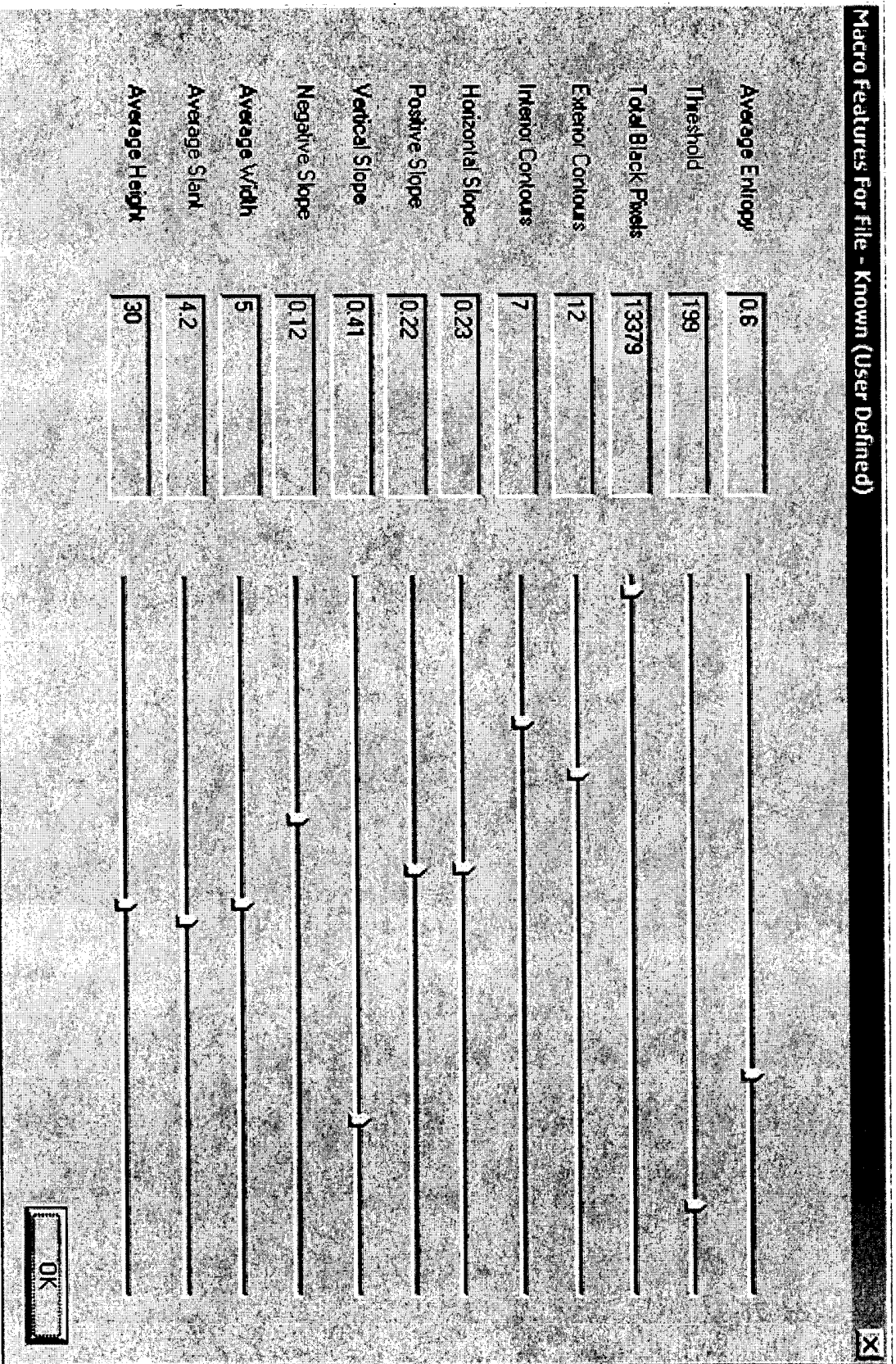


Fig. 31

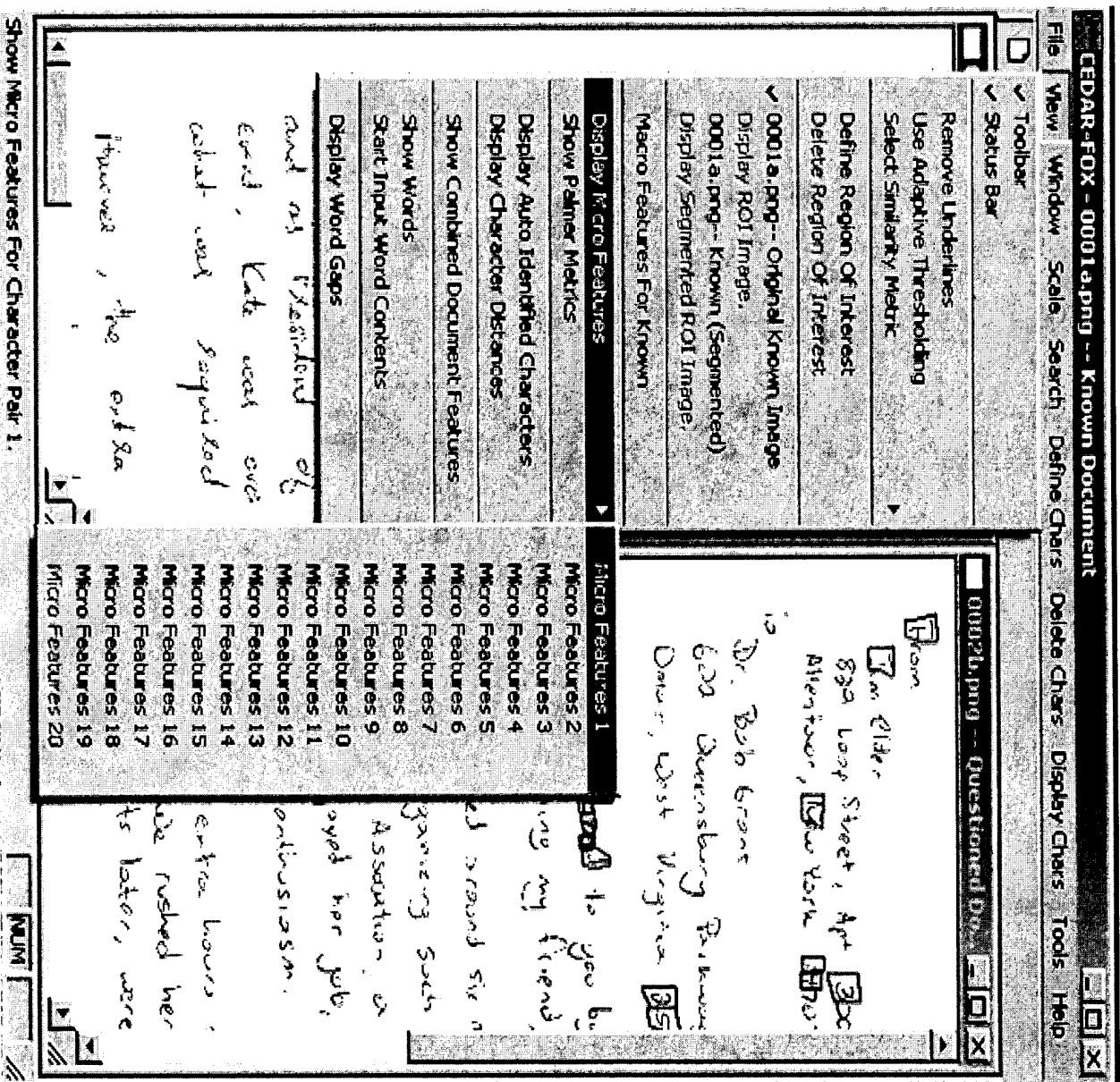


Fig. 32

Micro Features for Character Pair 1 - r'



Gradient

Questioned: 1-95
Known: 1-95
Questioned: 96-192
Known: 96-192

0000000000001100000000000000100000001100000010000000011000000011000
10000000000011000111000110000000010000000000000111101110110001111000000
1000110000011100000000110000000000000100000000000001100000000000000011000000
11000011000000000110000100000000100001100000100000110000000000000011001

Structure

Questioned: 1-95
Known: 1-95
Questioned: 96-192
Known: 96-192

000000000000000001010000100001101000011101000001010000000000000010000
000000000000000000010100001000010000000000000000000000000000000011100000
000000000110000000010100000000000100000000000000000000000000000000000
01011010000000000110000000001000000000000011110011100000001000000000100100

Concavity

Questioned: 1-64
Known: 1-64
Questioned: 65-128
Known: 65-128

01111110111011100000000000000010111011101110001100000001000
0111011001101011001000000000011011001111011001000000001001
000000000000000001100110000000011000000000000000000000000000
0001001100010001000000000000000000000010111000001000000000

Similarity

0.56

Type

Correlation

OK

Fig. 33

a b c d e f g h i j k l m
 n o p q r s t u v w x y z
 A B C D E F G H I J K L M
 N O P Q R S T U V W X Y Z

Fig. 34A

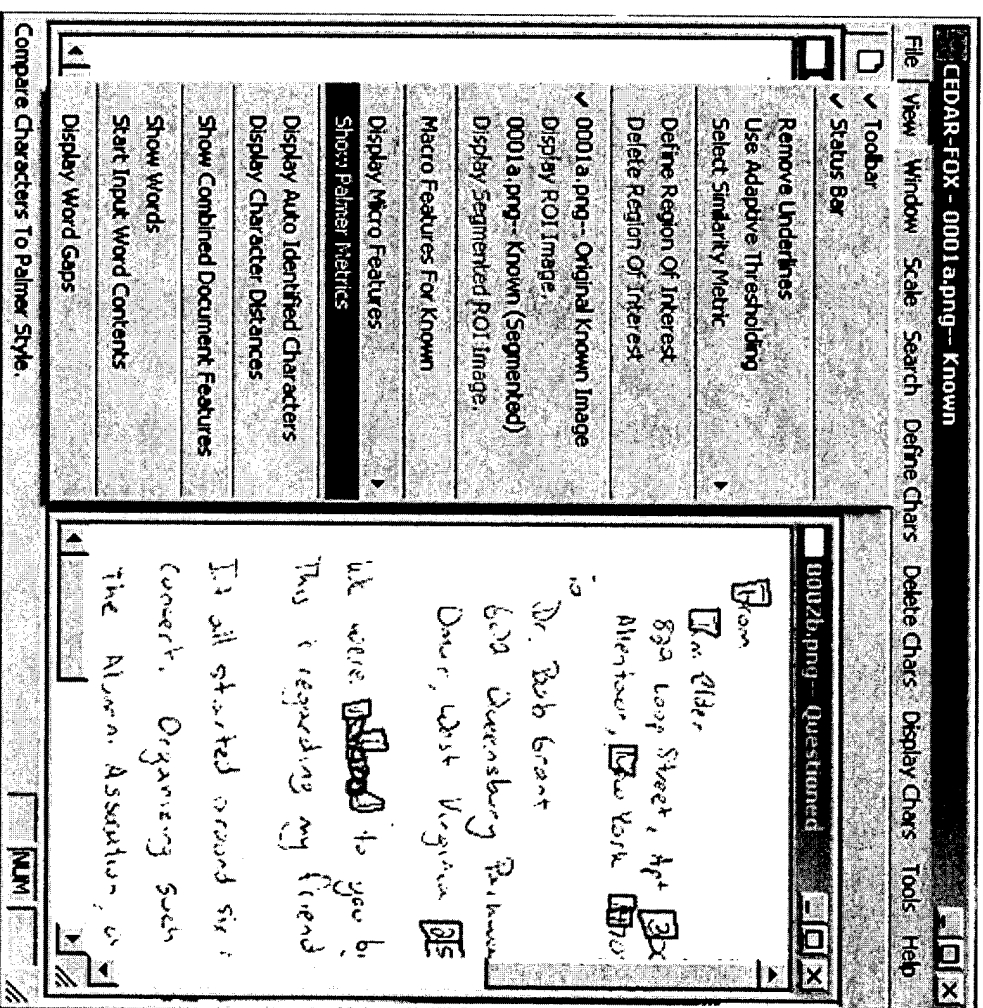


Fig. 34B

Palmer Metrics Comparison



Questioned 00026.png

Known 0001a.png

Questioned	Char.	Similarity
Glyph 1	r	0.51
Glyph 2	e	0.48
Glyph 3	f	0.48
Glyph 4	e	0.53
Glyph 5	r	0.54
Glyph 6	r	0.53
Glyph 7	e	0.64
Glyph 8	d	0.53
Glyph 9	b	0.48
Glyph 10	h	0.48
Glyph 11	3	0.62
Glyph 12	1	0
Glyph 13	4	0.55
Glyph 14	2	0.5
Glyph 15	5	0.65
Glyph 16	F	0.57
Glyph 17	J	0.46
Glyph 18	N	0.46
Glyph 19	K	0.58
Glyph 20		0
Overall		0.52

Known	Char.	Similarity
Glyph 1	r	0.59
Glyph 2	e	0.59
Glyph 3	f	0.56
Glyph 4	e	0.59
Glyph 5	r	0.55
Glyph 6	r	0.59
Glyph 7	e	0.61
Glyph 8	d	0.66
Glyph 9	b	0.52
Glyph 10	h	0.53
Glyph 11	3	0.65
Glyph 12	1	0.74
Glyph 13	4	0.62
Glyph 14	2	0.64
Glyph 15	5	0.64
Glyph 16	F	0.53
Glyph 17	J	0.43
Glyph 18	N	0.48
Glyph 19	K	0.57
Glyph 20		0
Overall		0.55

Fig. 35

0001a.png -- Known

To

From Elder

501 App Street, Apt 300
Albany, New York 12206

To

Dr. Bob Grant

600 Queensbury Parkway
Dover, West Virginia 26038

We were ~~delighted~~ to you by Ken Cohen and the
Center. This is regarding my friend, Kate Zach.

It all started around six months ago while at
"Kulug" Top Crest. Organizing such an event,
and as President of the Alumni Association, as to
end, Kate was overwhelmed but she enjoyed the
what was reported of her with great deal of

However, the extra hours affected her health;
the stress she passed out. We rushed her to the
nearest hospital, X-rays and blood tests later, we
just diagnosis.

0002b.png -- Questioned

From

To Elder

501 App Street, Apt 300
Albany, New York 12206

To

Dr. Bob Grant

600 Queensbury Parkway
Dover, West Virginia 26038

We were ~~delighted~~ to you by Ken Cohen and the University and
this is regarding my friend, Kate Zach.

It all started around six months ago while attending the
Crest. Organizing such an event is no picnic, as is
the Alumni Association, a co-sponsor of the event, Kate was
but she enjoyed her job and did what was required of
her and enthusiasm.

However, the extra hours affected her health; huffing through
passed out. We rushed her to the hospital, and several
of blood tests later, were told it was just exhaustion
and she was in very bad health since. Could you kindly
at the results and give us your opinion?

Thank you!

Fig. 36

Automatically Identified Characters

Distances between Characters of Known and Questioned

	Weight	Q-Rec	K-Rec	No.Dist	Avg Dist		Weight	Q-Rec	K-Rec	No.Dist	Avg Dist		Weight	Q-Rec	K-Rec	No.Dist	Avg Dist
0	0.1140	2	0	0	0.00	I	0.4535	0	0	0	0.00	F	0.8220	0	1	0	0.00
1	0.0376	0	0	0	0.00	m	0.7336	0	0	0	0.00	G	0.9548	0	0	0	0.00
2	0.5645	0	0	0	0.00	n	0.8190	0	0	0	0.00	H	0.8792	0	0	0	0.00
3	0.3617	0	0	0	0.00	o	0.5224	0	0	0	0.00	I	0.9624	0	0	0	0.00
4	0.6067	1	0	0	0.00	p	0.4298	0	0	0	0.00	J	0.8875	0	0	0	0.00
5	0.5435	3	1	3	0.64	q	0.5634	0	0	0	0.00	K	0.8265	2	0	0	0.00
6	0.5369	2	0	0	0.00	r	0.8107	0	0	0	0.00	L	0.7053	2	1	2	0.65
7	0.3342	1	1	1	0.69	s	0.6300	1	0	0	0.00	M	0.7930	1	0	0	0.00
8	0.3662	1	0	0	0.00	t	0.5938	5	0	0	0.00	N	0.9119	1	1	1	0.63
9	0.4833	2	0	0	0.00	u	0.5916	0	0	0	0.00	O	0.2747	1	0	0	0.00
a	0.5239	0	0	0	0.00	v	0.7237	0	0	0	0.00	P	0.4434	1	0	0	0.00
b	0.9462	0	2	0	0.00	w	0.7403	0	3	0	0.00	Q	0.6820	0	0	0	0.00
c	0.2574	0	2	0	0.00	x	0.4114	0	0	0	0.00	R	0.6169	0	0	0	0.00
d	0.7734	1	1	1	0.55	y	0.7803	0	0	0	0.00	S	0.6872	0	0	0	0.00
e	0.3877	9	2	18	0.58	z	0.5837	0	0	0	0.00	T	0.4114	1	0	0	0.00
f	0.6398	0	0	0	0.00	A	0.7019	4	0	0	0.00	U	0.5845	1	0	0	0.00
g	0.5480	0	0	0	0.00	B	0.8126	0	0	0	0.00	V	0.7629	0	0	0	0.00
h	0.8611	2	1	2	0.70	C	0.2924	0	0	0	0.00	W	0.8306	0	5	0	0.00
i	0.2962	0	0	0	0.00	D	0.8739	1	0	0	0.00	X	0.2394	0	0	0	0.00
j	0.4294	0	0	0	0.00	E	0.6187	0	0	0	0.00	Y	0.6187	2	0	0	0.00
k	0.5717	0	0	0	0.00							Z	0.5916	1	0	0	0.00

OK

Fig. 37

Document Features

Files

Questioned 0002b.png

Known 0001a.png

Manual Micro Features

Enable	Q-Feat	K-Feat	Difference	Log Same	Log Diff	LLR
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glyph 1	f	f	0.56	0.14	1.51	-1.370
Glyph 2	e	e	0.57	0.08	1.63	-1.550
Glyph 3	f	f	0.56	-0.33	1.35	-1.680
Glyph 4	e	e	0.63	1.64	0.73	0.9100
Glyph 5	f	f	0.49	-1.55	1.41	-2.960
Glyph 6	f	f	0.56	0.06	1.52	-1.460
Glyph 7	e	e	0.61	0.76	1.63	-0.870
Glyph 8	d	d	0.61	0.3	1.57	-1.270
Glyph 9	b	b	0.68	1.38	0.62	0.7600
Glyph 10	h	h	0.57	-0.81	1.45	-2.260
Glyph 11	3	3	0.62	1	1.73	-0.730
Glyph 12	1	1	0	0	0	0.0000
Glyph 13	4	4	0.52	2.7	1.09	3.790
Glyph 14	2	2	0.51	1.99	1.17	3.160
Glyph 15	5	5	0.7	1.8	0.53	1.2700
Glyph 16	f	f	0.63	1.17	0.89	0.2800
Glyph 17	j	j	0.69	1.39	-0.21	1.6000
Glyph 18	N	N	0.72	1.53	-0.72	2.2500
Glyph 19	K	K	0.64	1.24	1.17	0.0700
Sum				5.11	19.07	-13.96

Macro Features

Enable	Q-Feat	K-Feat	Difference	Log Same	Log Diff	LLR
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Entropy	0.44	0.63	0.09	1.54	0.71	0.83
Threshold	196	198	2	-1.6	-4.51	2.91
Black Pixels	163877	204649	40972	-11.38	-12.61	1.23
Ext. Cont.	30	20	10	-5.65	2.97	2.69
Int. Cont.	11	22	11	-8.26	3.04	5.22
H. Slope	0.24	0.2	0.04	0.97	1.68	-0.71
P. Slope	0.21	0.24	0.03	2.47	1.13	1.34
V. Slope	0.36	0.42	0.05	0	1.44	-1.44
N. Slope	0.17	0.12	0.04	-1.71	2.03	-3.74
Stroke Width	5	4	1	-1.6	-1.08	-0.52
Avg. Skirt	-0.45	6.24	6.7	-3.7	3.33	-0.37
Avg. Height	26	30	4	2.19	3.08	0.90
Sum				-31.12	-23.63	7.48

Auto Micro Features

Use Auto Micro features? ☐

Chars from Question: 48

Chars from Known: 21

Number of Distances: 28

Log Same: 20.55

Log Diff: 5.17

Document Similarity

Same Writer? No

Log Likelihood Ratio: -47.16

Micro Similarity: Correlation

Fig. 38

P

P

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Jim Elder
2000 Street, Apt 300
New York

Jr. Bob Grant
602 Jucensberry Parkway
Omar, West Virginia

We were referred to you by a friend, Kate
concerning my friend, Kate
who is attending the University Medical

It all started around six months ago while attending the
"Ruben" Jazz concert. I was such an event to picnic,
and as President of the Alumni Association, a sponsor of the
event, Kate was overworked. But she enjoyed her job and did
what was required of her with great zeal and enthusiasm.

However, the extra hours affected her health, halfway through
the show she passed out. We rushed her to the hospital, and
several questions, and blood tests later, were told it was
just exhaustion.

ate's been on very bad health since. Could you kindly take a

Fig. 40

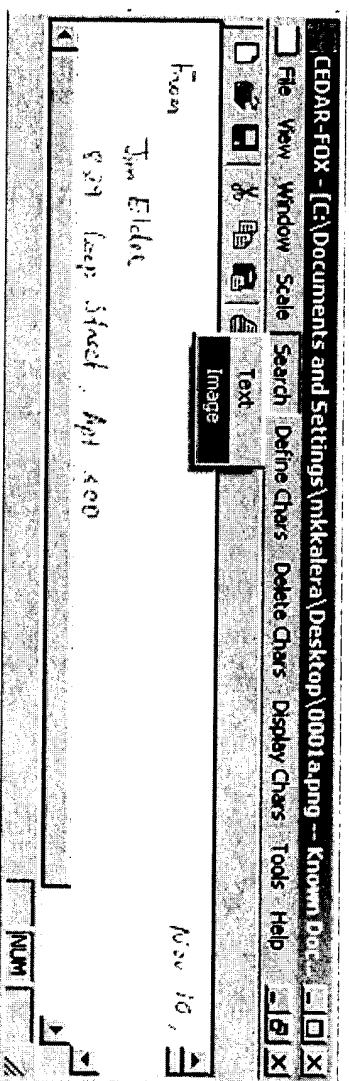


Fig. 41A

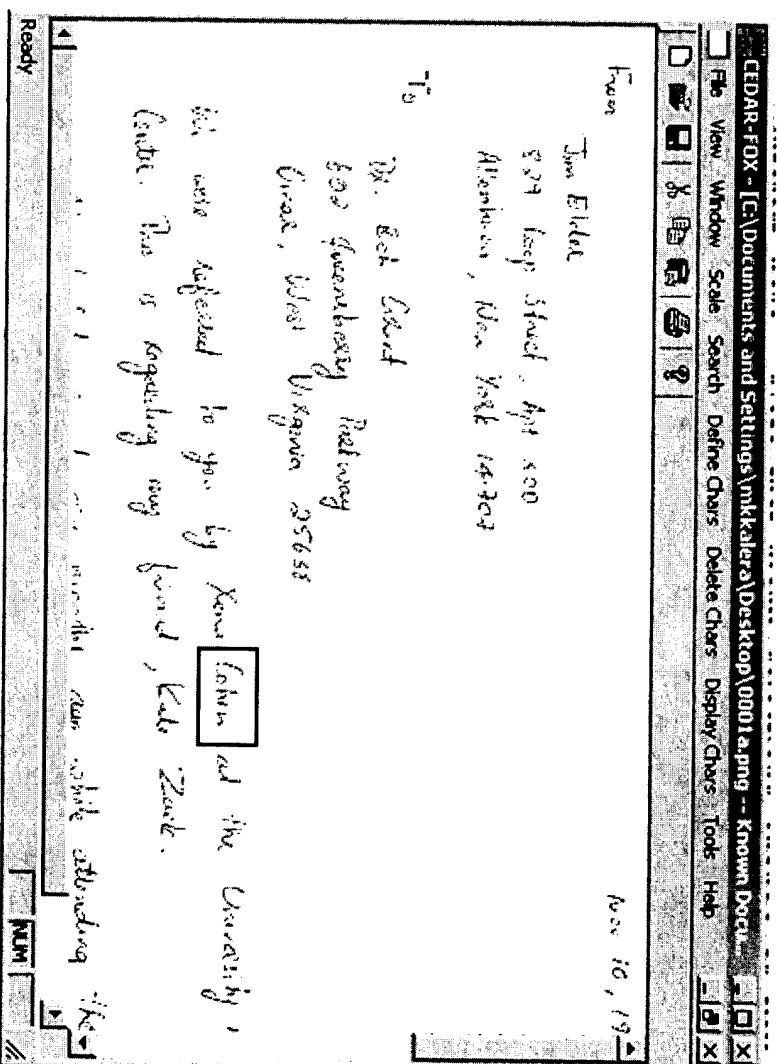


Fig. 41B

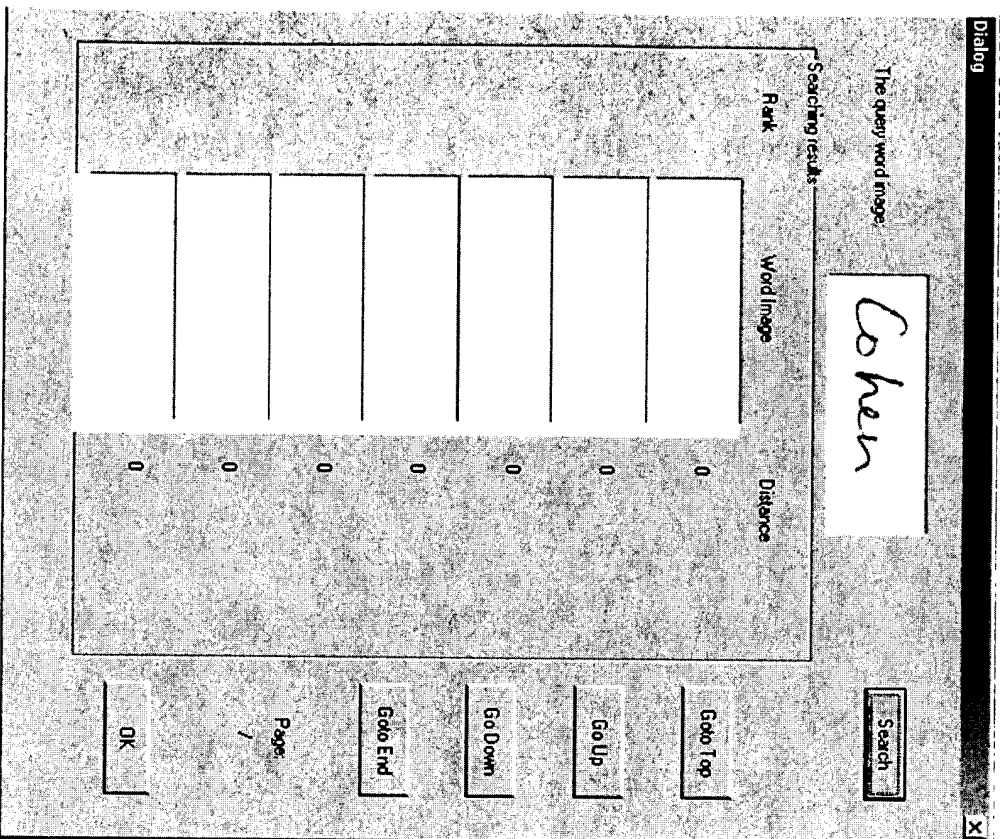


Fig. 42A

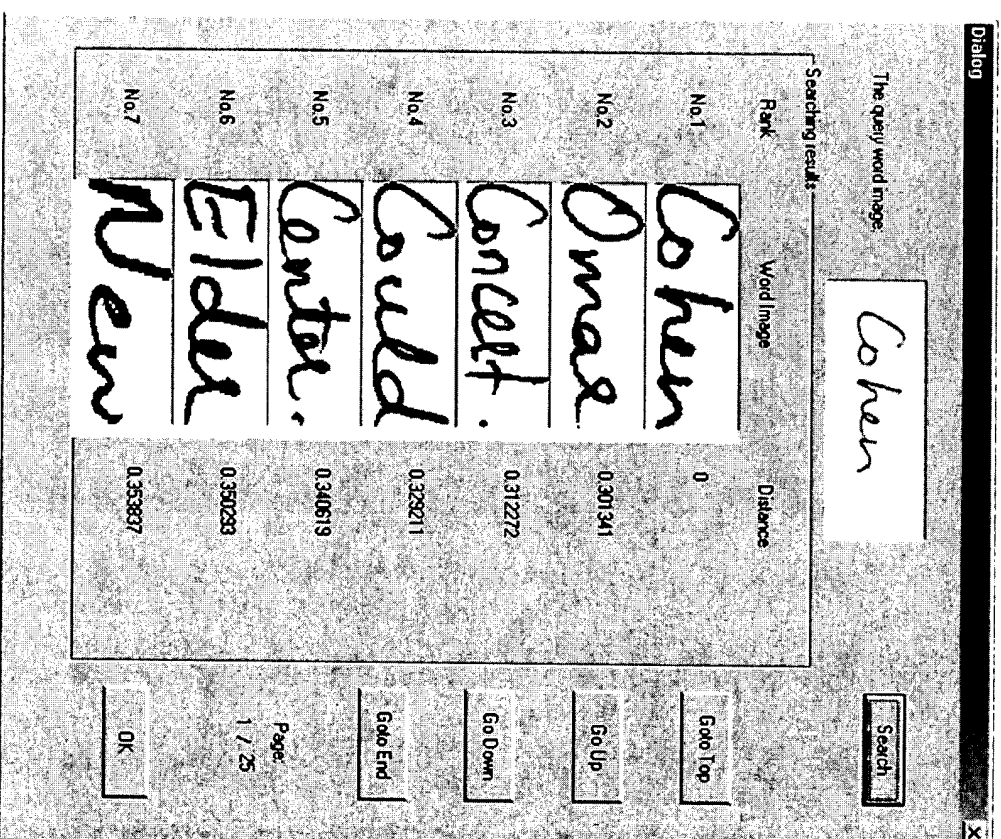


Fig. 42B

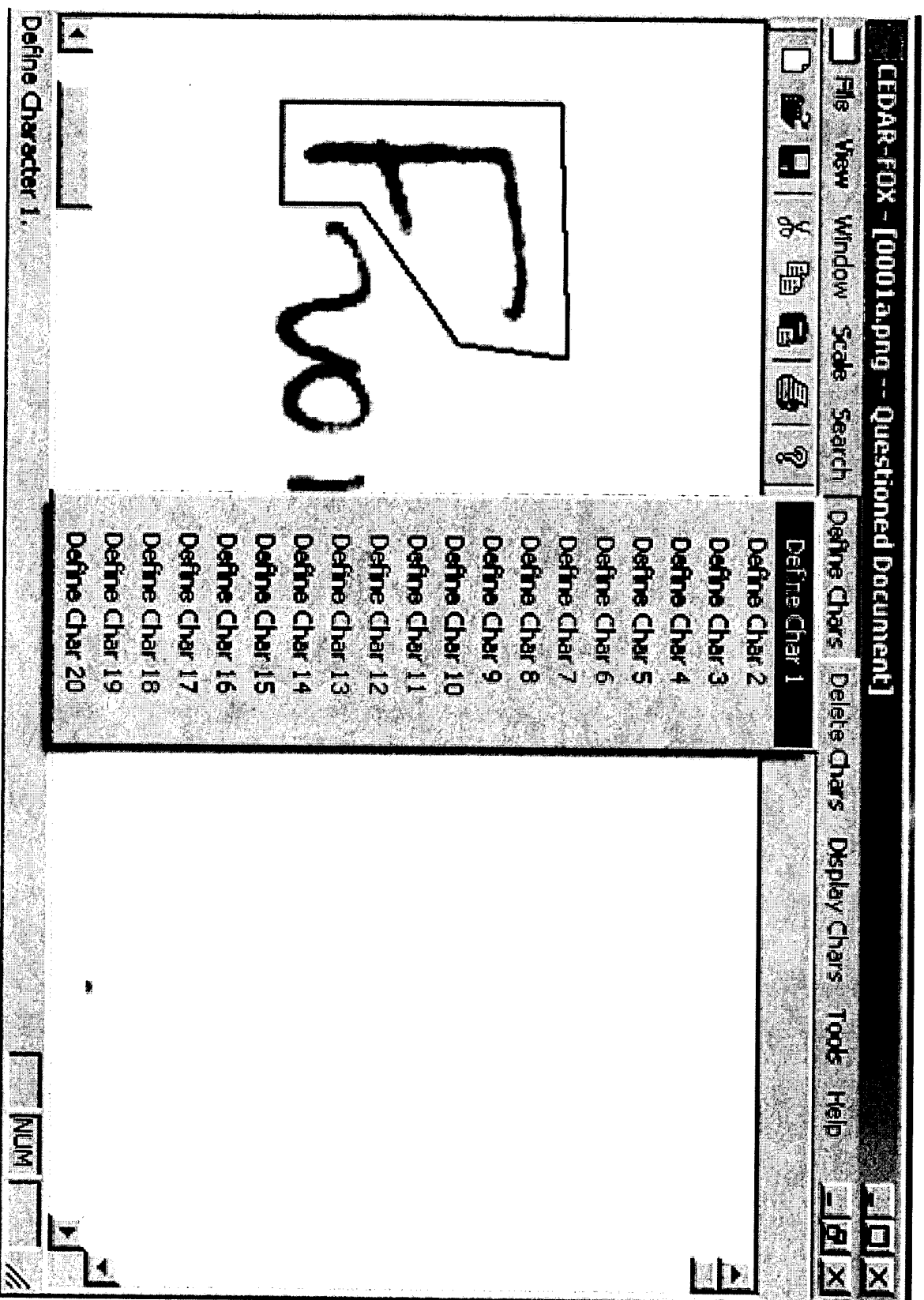


Fig. 43

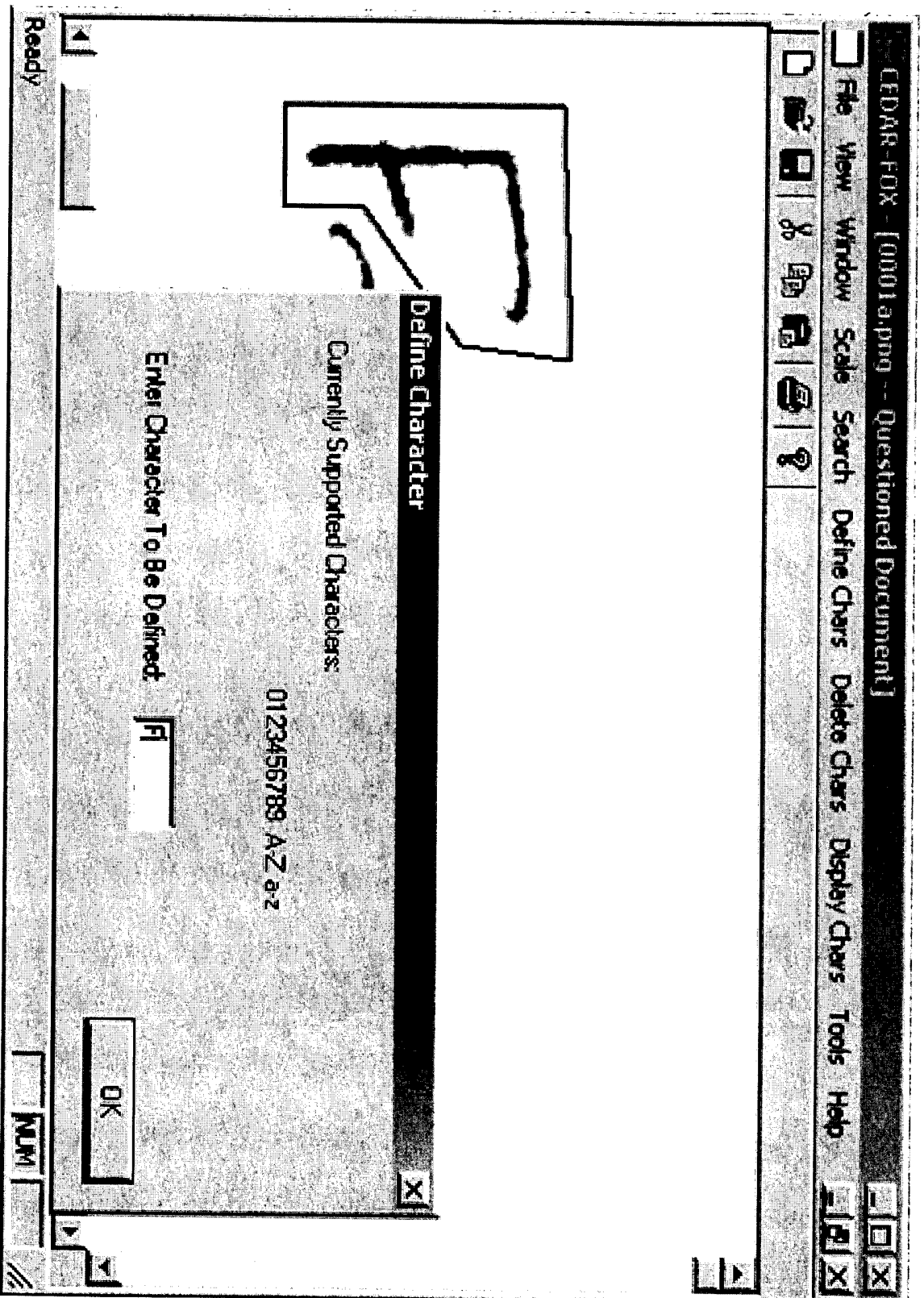


Fig. 44

R

Fin Fielder.

529 keep street. Apr 200

Alison, [redacted] York [redacted]

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62-10

Greenberg Pauline

Unac, West Virginia
 1956-58

but was ~~defeated~~ to give by Xena (also) and the Center. This is regarding my friend, Kento Zerk.

It is all started around six months ago while at "Rabney" Tort Contest. Organizing such an event and as President of the Alumni Association, a co-ordinator, Kath was overwhelmed. But she enjoyed her job and was surprised of her with great deal of

However, the extra hours affected her health; the strain she passed out. We rushed her to the nearest hospital, X-ray and blood tests later, we just explained.

From

7. 2134

832 Loop Street, Apt. 300

Attention, New York 10707

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Dr. Bob Grant

6:30 Darrin's Bay Park

Dover, West Virginia 25838

it were ~~possible~~ to you by Ken Coker at the University Med
This is regarding my friend, Kate Cook.

It all started around six months ago while attending the concert. Organizing such an event is no picnic, and as the Alumni Association, a cosponsor of the event, Kate was asked to help. But she enjoyed her job, and did what was required of her with zeal and enthusiasm.

However, the extra hours affected her health, battling through it
presented her to the hospital, and several per
and blood tests later, were told it was just exhaustion

James: Open in my head health since. Could you kindly to
ot the results and give us your opinion?

Thank you!

Fig. 45

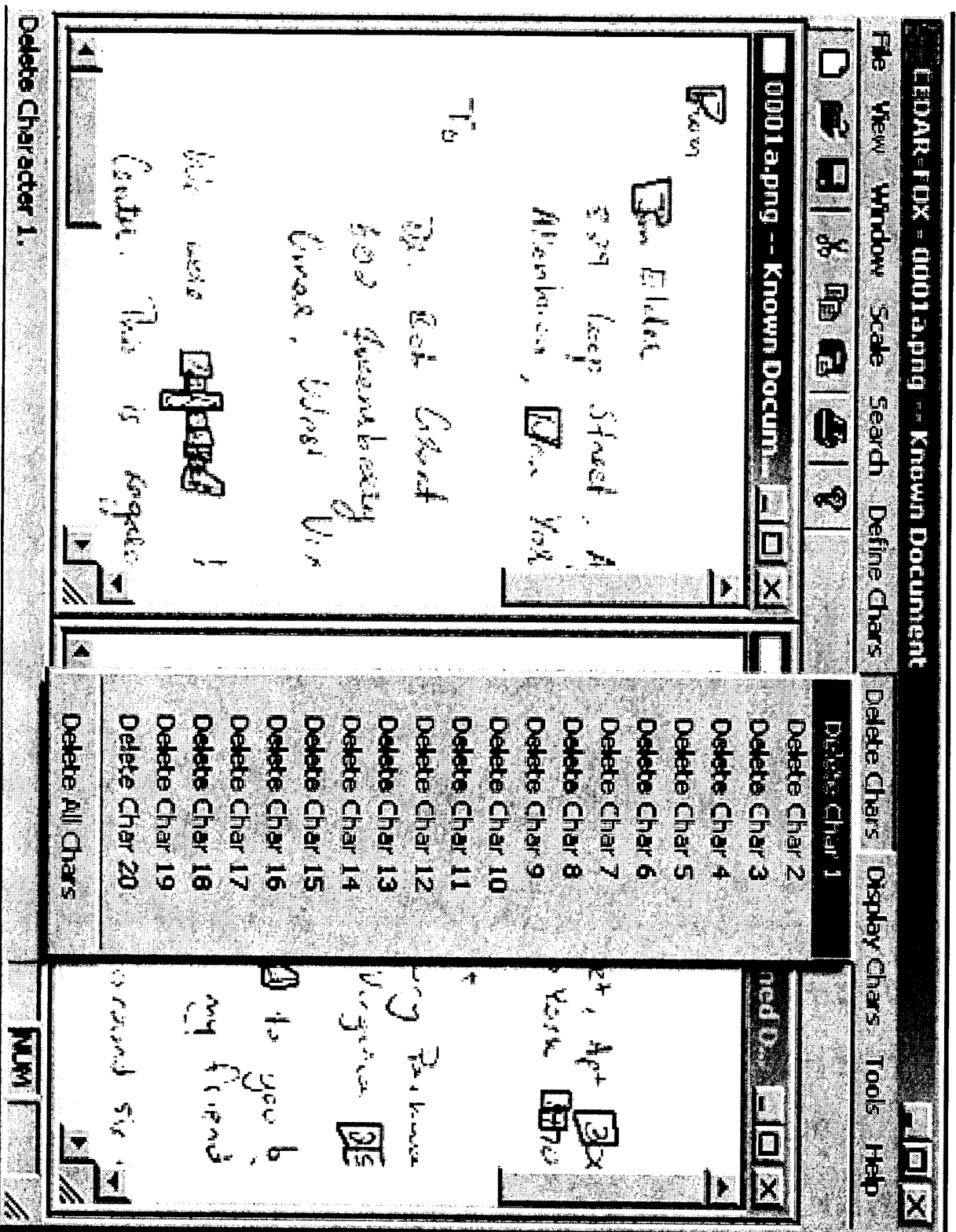


Fig. 46

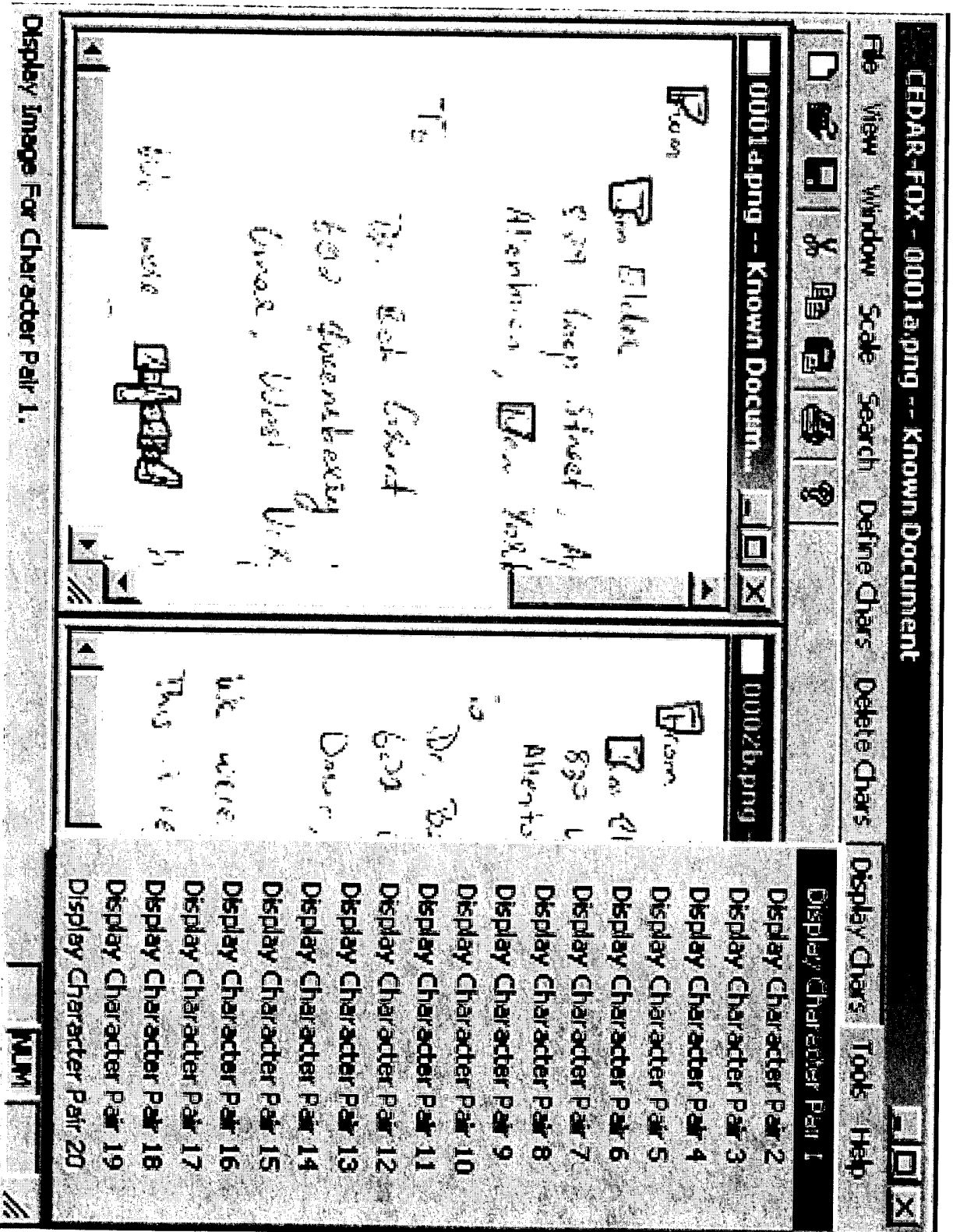


Fig. 47A

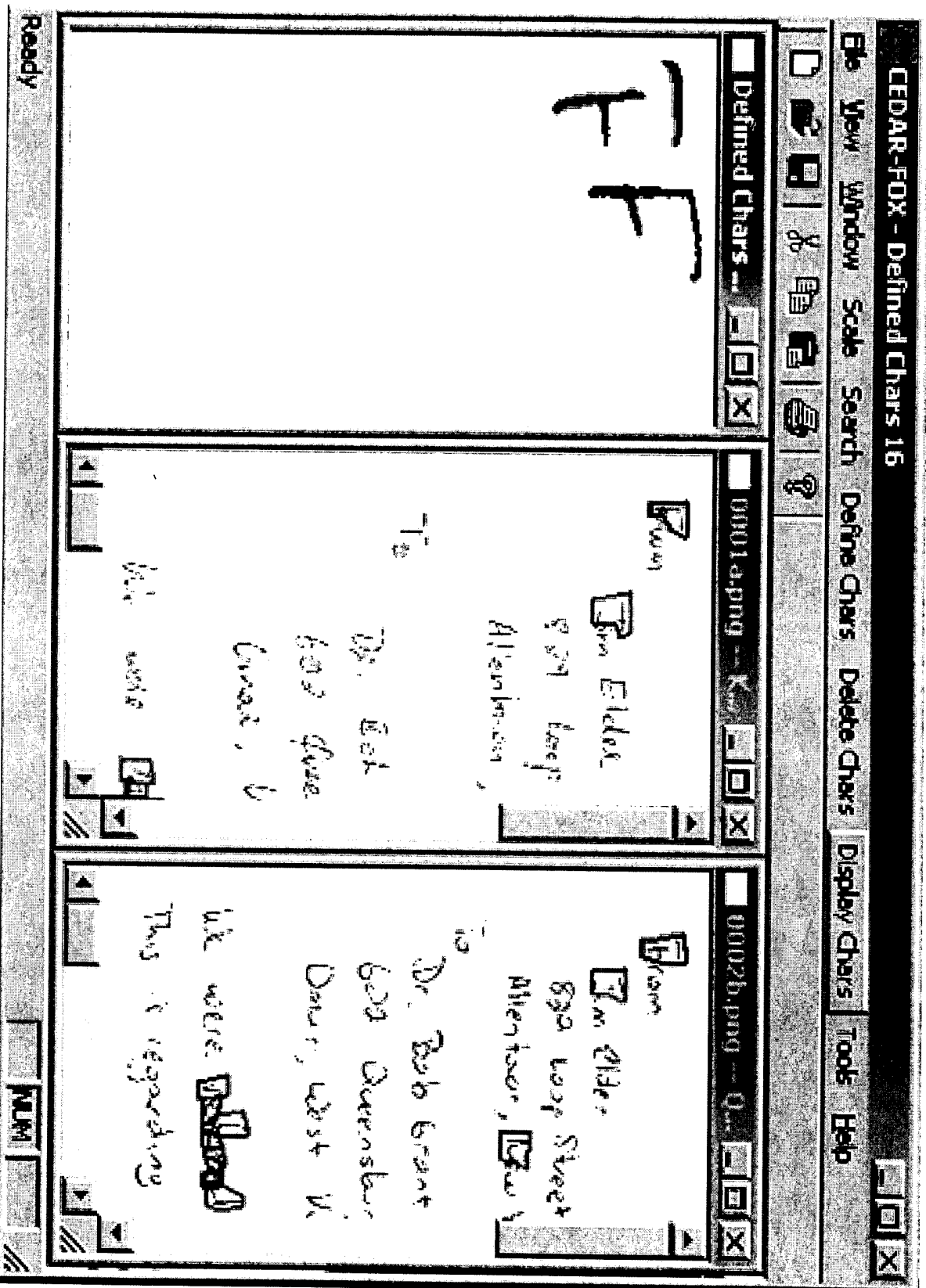


Fig. 47B

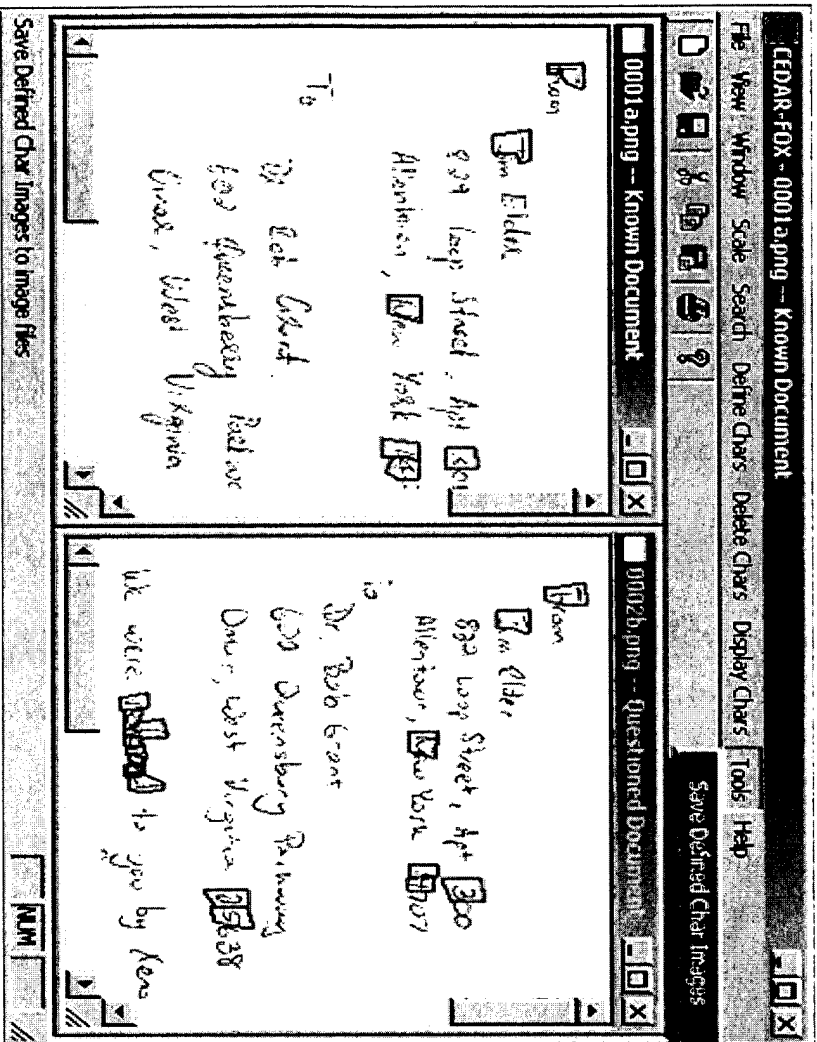


Fig. 48B

Fig. 48A

